TRAFFIC SPEED REPORT NO. 81

DECEMBER 1965
NO. 30

Joint Highway Research Project

by

D. A. WRIGHT

PURDUE UNIVERSITY
LAFAYETTE INDIANA

Progress Report

Traffic Speed Report No. 81

To: G. A. Leonards, Director
Joint Highway Research Project

December 9, 1965

From: H. L. Michael, Associate Director
Joint Highway Research Project

File: 8-3-3
Project: C-36-10C

Attached is a Progress Report entitled "Traffic Speed Report No. 81", conducted in September of 1965. The report was authored by Mr. Darrell A. Wright, Graduate Assistant on our staff, under the direction of Professor H. L. Michael.

This report is the latest in a series of annual studies which have been conducted for more than 20 years. The primary purpose of the studies is to provide data for speed trend information on the several types of state highways. The speeds are taken each year at the same locations, if conditions at the sites have not changed. Speeds are recorded for only free-flowing vehicles.

The report is presented for information and the record. It is requested that approval be granted to distribute copies of this report to the Indiana State Police, the Indiana Traffic Safety Foundation, the Indiana Office of Traffic Safety, and the Bureau of Public Roads. In the latter case, the practice has been for the Bureau to use the information with the information provided by many other states to develop speed trend data for the United States and regions of the country.

Respectfully submitted,

Harold L. Michael

Harold L. Michael, Secretary

HLM:bc

Attachment

Copy:

F. L. Ashbaucher
J. R. Cooper
J. W. Delleur
W. L. Dolch
W. H. Goetz
W. L. Grecco
F. F. Havey
F. S. Hill
J. F. McLaughlin
F. B. Mendenhall
R. D. Miles
J. C. Oppenlander
W. P. Privette
M. B. Scott
J. V. Smythe
F. W. Stubbs
K. B. Woods
E. J. Yoder

Progress Report

TRAFFIC SPEED REPORT NO. 81

by

Darrell A. Wright
Graduate Assistant

Joint Highway Research Project

File No: 8-3-3

Project No: C-36-10C

Purdue University

Lafayette, Indiana

December 9, 1965

ABSTRACT

This report is the annual, continuing study of the speeds of vehicles on rural Indiana highways. Observations of spot-speeds were taken on Interstate, other four lane, and two lane highways throughout the state during the months of August and September, 1965.

Analysis of the speeds recorded showed that the over-all average speed for passenger cars was 60.3 miles per hour. The over-all average speed for trucks on the three types of highways was 53.1 miles per hour.

These average speeds showed a decrease from the values determined in July, 1964, but when the present values were compared to the values for the previous eleven years, the trend in average speed of vehicles on rural Indiana highways is still increasing.

Digitized by the Internet Archive
in 2011 with funding from
LYRASIS members and Sloan Foundation; Indiana Department of Transportation

http://www.archive.org/details/trafficspeedrepo00wrig

TRAFFIC SPEED REPORT NO. 81

During August and September, 1965, observations were made to determine free-flow spot-speeds of vehicles on rural Indiana highways. To permit comparison of speeds observed in this study to those observed in previous studies, the same locations on specified Federal and State highways were used. This assured that there would be no variation in the speeds due to different physical features of the roadway. The observation stations were on level, tangent sections of rural highways throughout the state. The observations were made during daylight and under favorable weather conditions.

To compare the compliance to legal speed limits, the vehicles were classified as Indiana passenger cars, non-Indiana passenger cars, trucks weighing less than 5000 pounds, and trucks weighing 5000 pounds or more.

The speed limits for rural highways in Indiana are as follows: 70 miles per hour on Interstate highways for passenger cars and trucks weighing less than 5000 pounds, 65 miles per hour on other highways for passenger cars and trucks weighing less than 5000 pounds, 55 miles per hour for trucks weighing 5000 pounds or more on divided highways with a median of 20 feet or more, and 50 miles per hour for trucks weighing 5000 pounds or more on other highways. All Interstate and four lane highways observed in this study were divided by a median of at least 20 feet.

It was determined in previous studies that a sample of vehicle speeds from four stations on each type of highway would give a

TRAFFIC SPEED REPORT NO. 81

During August and September, 1965, observations were made to determine free-flow spot-speeds of vehicles on rural Indiana highways. To permit comparison of speeds observed in this study to those observed in previous studies, the same locations on specified Federal and State highways were used. This assured that there would be no variation in the speeds due to different physical features of the roadway. The observation stations were on level, tangent sections of rural highways throughout the state. The observations were made during daylight and under favorable weather conditions.

To compare the compliance to legal speed limits, the vehicles were classified as Indiana passenger cars, non-Indiana passenger cars, trucks weighing less than 5000 pounds, and trucks weighing 5000 pounds or more.

The speed limits for rural highways in Indiana are as follows: 70 miles per hour on Interstate highways for passenger cars and trucks weighing less than 5000 pounds, 55 miles per hour on other highways for passenger cars and trucks weighing less than 5000 pounds, 55 miles per hour for trucks weighing 5000 pounds or more on divided highways with a median of 20 feet or more, and 50 miles per hour for trucks weighing 5000 pounds or more on other highways. All Interstate and four lane highways observed in this study were divided by a median of at least 20 feet.

It was determined in previous studies that a sample of vehicle speeds from four stations on each type of highway would give a

representative sample of traffic speeds. The locations of the stations used for the study were as follows: (see Figure 1)

Interstate Highways

1. I-80 0.7 Miles East of Junction of S.R. 912
2. I-65 1.0 Mile West of Junction of S.R. 334
3. I-74 1.0 Mile East of Junction of Post Road
4. I-65 2.9 Miles North of Junction of S.R. 160

Four Lane Highways

5. U.S, 31 1.2 Miles South of Junction of S.R. 38
6. U.S. 52 1.0 Mile East of Junction of S.R. 28
7. U.S. 41 1.0 Mile North of South Junction of S.R. 2
8. U.S. 52 1.0 Mile West of Klondyke

Two Lane Highways

9. U.S. 41 1.0 Mile North of Boswell
10. U.S. 52 2.0 Miles North of Templeton
11. U.S. 31 3.0 Miles South of Rochester
12. U.S. 25 0.7 Miles West of Americus

Sample Size

Computations based on the results of the previous study indicated that a minimum sample size of 207 speeds of passenger cars would be necessary to be able to determine the true average speed within one mile per hour at the 95% confidence level. To determine the true average speed of heavy trucks within two miles per hour at the 90% confidence level would require a minimum sample size of 29 speeds. The computation of these sample sizes is contained in the Appendix.

representative sample of traffic speeds. The locations of the stations used for the study were as follows: (see Figure 1)

Interstate Highways

1. I-80 0.7 Miles East of Junction of S.R. 913
2. I-65 1.0 Mile West of Junction of S.R. 334
3. I-74 1.0 Mile East of Junction of Post Road
4. I-65 4.9 Miles North of Junction of S.R. 160

Four Lane Highways

5. U.S. 31 1.2 Miles South of Junction of S.R. 38
6. U.S. 52 1.0 Mile East of Junction of S.R. 28
7. U.S. 41 1.0 Mile North of South Junction of S.R. 2
8. U.S. 52 1.0 Mile West of Klondyke

Two Lane Highways

9. U.S. 41 1.0 Mile North of Boswell
10. U.S. 52 2.0 Miles North of Templeton
11. U.S. 31 3.0 Miles South of Rochester
12. U.S. 25 0.7 Miles West of Amyrlou

Sample Size

Computations based on the results of the previous study indicated that a minimum sample size of 207 speeds of passenger cars would be necessary to be able to determine the true average speed within one mile per hour at the 99% confidence level. To determine the true average speed of heavy trucks within two miles per hour at the 99% confidence level would require a minimum sample size of 29 speeds. The computation of these sample sizes is contained in the Appendix.

The minimum sample size was based on an average value for all stations from the previous study. To assure that the desired confidence level would be reached for each station, additional samples were taken.

Equipment and Field Procedure

The speeds of the vehicles were obtained by the use of an "Electro-Matic" Radar Speed Meter, built by Automatic Signal Division, Eastman Industries, Inc., East Norwalk, Conn. The meter was placed approximately four feet from the edge of the pavement at an angle of less than 10 degrees with the highway centerline. For angles less than 10 degrees, the error in reading the vehicle speed is negligible.

Prior to beginning the study, a test using a "fifth wheel" was performed to determine the accuracy of the radar meter. The fifth wheel was checked for accuracy at a five-mile odometer check section and no significant errors were found in the instrument. The radar unit was found to have an error of less than 1/2 mile per hour; consequently, the use of a calibration curve was deemed unnecessary. During the observations at a station, the radar meter was checked periodically with the 60 mile per hour tuning fork to assure the accuracy of the readings.

Each vehicle for which a speed was recorded was free flowing (the speed of the vehicle should not have been affected by other vehicles traveling in the same direction).

To avoid influencing the vehicles on the facility, the vehicle which was used in the study was not parked on the roadside at the observation station. The vehicle was parked on a side road in the

The minimum sample size was based on an average value for all stations from the previous study. To assure that the desired confidence level would be reached for each station, additional samples were taken.

Equipment and Field Procedure

The speeds of the vehicles were obtained by the use of an "Electro-Matic" Radar Speed Meter, built by Automatic Signal Division, Eastman Industries, Inc., East Norwalk, Conn. The meter was placed approximately four feet from the edge of the pavement at an angle of less than 10 degrees with the highway centerline. For angles less than 10 degrees, the error in reading the vehicle speed is negligible.

Prior to beginning the study, a test using a "fifth wheel" was performed to determine the accuracy of the radar meter. The fifth wheel was checked for accuracy at a five-mile odometer check section and no significant errors were found in the instrument. The radar unit was found to have an error of less than 1/2 mile per hour; consequently, the use of a calibration curve was deemed unnecessary. During the observations at a station, the radar meter was checked periodically with the 60 mile per hour tuning fork to assure the accuracy of the readings.

Each vehicle for which a speed was recorded was free flowing (the speed of the vehicle should not have been affected by other vehicles traveling in the same direction).

To avoid influencing the vehicles on the facility, the vehicle which was used in the study was not parked on the roadside at the observation station. The vehicle was parked on a side road in the

vicinity of each station with an attempt to conceal it from the view of the passing vehicles. On the Interstate facilities the vehicle was parked on frontage roads that paralleled the facility, where possible.

The radar unit was placed on a platform in a green cardboard barrel, similar in size and color to the metal barrels used by the Indiana State Highway Department for roadside trash collection. The cable to the speed recording meter was stretched toward the roadside fence. In this manner, the personnel in the study were approximately 25 feet from the roadside and created a minimum influence on the passing vehicles.

vicinity of each station with an attempt to conceal it from the view of the passing vehicles. On the Interstate facilities the vehicle was parked on frontage roads that paralleled the facility, where possible.

The radar unit was placed on a platform in a green cardboard barrel, similar in size and color to the metal barrels used by the Indiana State Highway Department for roadside trash collection. The cable to the speed recording meter was stretched toward the roadside fence. In this manner, the personnel in the study were approximately 25 feet from the roadside and created a minimum influence on the passing vehicles.

Results of Analysis

The data collected are summarized for each station in Tables 1 to 12 in the Appendix. Tables 13, 14, and 15 summarize the data for the three types of facilities: Interstate, four lane, and two lane. Table 16 summarizes the data for all facilities observed.

Figures 2 to 13 in the Appendix show the accumulative speed curves for each observation station. The accumulative speed curves for the three types of facilities and for all facilities observed are shown in Figures 14, 15, 16, and 17.

The results of this study and the studies conducted during the previous ten years are tabulated in Table 17 and shown graphically in Figure 18.

In this study the average speeds for each classification of vehicles and each type of highway are as follows:

	Interstate	Four Lane	Two Lane
Passenger cars			
Indiana	61.2	60.1	58.2
Non-Indiana	62.1	62.2	57.9
85-th percentile (all)	67.7	67.2	64.6
Trucks			
less than 5000 lbs.	54.9	55.5	54.3
5000 lbs. or more	53.6	53.1	50.6

The percent of vehicles traveling at the speed limit or greater for each classification of vehicles and each type of highway were as follows:

	Interstate	Four Lane	Two Lane
Passenger cars			
Indiana	11.6	26.0	17.5
Non-Indiana	9.0	34.5	14.0
Trucks			
less than 5000 lbs.	0.0	9.0	9.8
5000 lbs. or more	44.4	49.3	60.0

The percent of vehicles traveling 5 miles per hour or more above the speed limit are shown at the top of page 6.

Results of Analysis

The data collected are summarized for each station in Tables 1 to 12 in the Appendix. Tables 13, 14, and 15 summarize the data for the three types of facilities: Interstate, four lane, and two lane. Table 16 summarizes the data for all facilities observed.

Figures 2 to 13 in the Appendix show the accumulative speed curves for each observation station. The accumulative speed curve for the three type of facilities and for all facilities observed are shown in Figures 14, 15, 16, and 17.

The results of this study and the studies conducted during the previous ten years are tabulated in Table 17 and shown graphically in Figure 18.

In this study the average speeds for each classification of vehicles and each type of highway are as follows:

	Interstate	Four lane	Two lane
Passenger cars			
Indians	61.2	60.1	58.2
Non-Indians	62.1	62.2	57.9
85-th percentile (all)	67.7	67.2	64.6
Trucks			
Less than 5000 lbs.	54.9	55.5	54.3
5000 lbs. or more	53.6	53.1	50.6

The percent of vehicles traveling at the speed limit or greater for each classification of vehicles and each type of highway were as follows:

	Interstate	Four lane	Two lane
Passenger cars			
Indians	11.6	26.0	17.5
Non-Indians	9.0	24.5	14.0
Trucks			
Less than 5000 lbs.	0.0	7.0	9.8
5000 lbs. or more	44.4	49.3	60.0

The percent of vehicles traveling 5 miles per hour or more above the speed limits are shown at the top of page 6.

	Interstate	Four Lane	Two Lane
Passenger cars			
Indiana	3.0	7.8	5.5
Non-Indiana	1.9	9.7	3.6
Trucks			
less than 5000 lbs.	0.0	2.0	2.6
5000 lbs. or more	12.6	9.7	25.2

Further analysis for all facilities showed that approximately 2 percent of the heavy trucks exceeded the speed limit by 10 miles per hour.

Summary and Conclusions

The average speeds found in this study were about one mile per hour lower than the previous study. Throughout the summer increased publicity was given to Indiana's rising accident and fatality rates. About three weeks before the study began, the state of Indiana placed small, white wooden crosses throughout the state at each location where a fatal accident had occured during the year. These events, perhaps, could have contributed to the reduction in the average speeds.

It must be remembered that the sample average speeds have a confidence limit of plus or minus one mile per hour at the 95% confidence level for containing the true average speed of the vehicles. When this fact is considered and the results of this study are compared to the results of the previous ten studies in Figure 18, the trend in the average speeds still seems to be increasing.

The results for passenger cars on Interstate and four lane facilities are quite similar. The physical features, shoulders, medians, and access, at the observation stations on the four lane facilities were similar to Interstate standards. The drivers, perhaps, maintained the same speeds on the four lane facilities

Passenger cars			
Indiana	3.0	7.8	5.5
Non-Indiana	1.9	9.7	3.6
Trucks			
Less than 5000 lbs.	0.0	2.0	2.6
5000 lbs. or more	12.6	9.7	25.2

Further analysis for all facilities showed that approximately 2 percent of the heavy trucks exceeded the speed limit by 10 miles per hour.

Summary and Conclusions

The average speeds found in this study were about one mile per hour lower than the previous study. Throughout the summer increased publicity was given to Indiana's rising accident and fatality rates. About three weeks before the study began, the state of Indiana placed small, white wooden crosses throughout the state at each location where a fatal accident had occured during the year. These events, perhaps, could have contributed to the reduction in the average speeds.

It must be remembered that the sample average speeds have a confidence limit of plus or minus one mile per hour at the 95% confidence level for containing the true average speed of the vehicles. When this fact is considered and the results of this study are compared to the results of the previous ten studies in Figure 18, the trend in the average speeds still seems to be increasing.

The results for passenger cars on Interstate and four lane facilities are quite similar. The physical features, shoulders, medians, and access, at the observation stations on the four lane facilities were similar to Interstate standards. The drivers, perhaps, maintained the same speeds on the four lane facilities

an on the Interstate facilities because of the similar physical features despite the differences in the posted speed limits.

Recommendations for Future Studies

The following recommendations are made to facilitate observation of the vehicle speeds in future studies.

1. The observation station on I-80 should be moved. The volume on the highway has increased until it is difficult to obtain free-flowing vehicles.

2. A 50 foot extension for the cable to the speed recording meter should be purchased. The extension would enable the observer to conceal his presence with greater ease and decrease the possibility of influencing the observed vehicles.

APPENDIX

Determination of Sample Size

It was desired that the average speed of the sample of passenger cars taken at a station be within one mile per hour, at the 95% confidence level, of the true average speed of the passenger cars on the facility. For trucks weighing 5000 pounds or more, it was desired that the sample average speed be within two miles per hour, at the 90% confidence level, of the true average speed.

It was assumed that the distribution of speeds was normal. Using the standard deviation determined in the previous study, the number of passenger cars and trucks needed for the sample was determined.

For passenger cars:

$$N = \left[\frac{2\ t\ S}{L}\right]^2$$

where,

N = the number of speeds required for the sample

t = the "t" distribution statistic

S = estimated standard deviation

L = the length of the confidence interval

$$N = \left[\frac{2(1.96)(7.40)}{2}\right]^2 = 206.2$$

or 207 observations of passenger cars

For trucks:

$$N = \left[\frac{2(1.645)(6.52)}{4}\right]^2 = 28.8$$

or 29 observations of heavy trucks

Determination of Sample Size

It was desired that the average speed of the sample of passenger cars taken at a station be within one mile per hour, at the 95% confidence level, of the true average speed of the passenger cars on the facility. For trucks weighing 5000 pounds or more, it was desired that the sample average speed be within two miles per hour, at the 90% confidence level, of the true average speed.

It was assumed that the distribution of speeds was normal. Using the standard deviation determined in the previous study, the number of passenger cars and trucks needed for the sample was determined.

For passenger cars:

$$N = \left[\frac{2 \cdot t \cdot S}{L}\right]^2$$

where,

N = the number of speeds required for the sample

t = the "t" distribution statistic

S = estimated standard deviation

L = the length of the confidence interval

$$N = \left[\frac{2(1.96)(7.40)}{2}\right]^2 = 206.2$$

or 207 observations of passenger cars

For trucks:

$$N = \left[\frac{2(1.645)(6.50)}{4}\right]^2 = 28.8$$

or 29 observations of heavy trucks

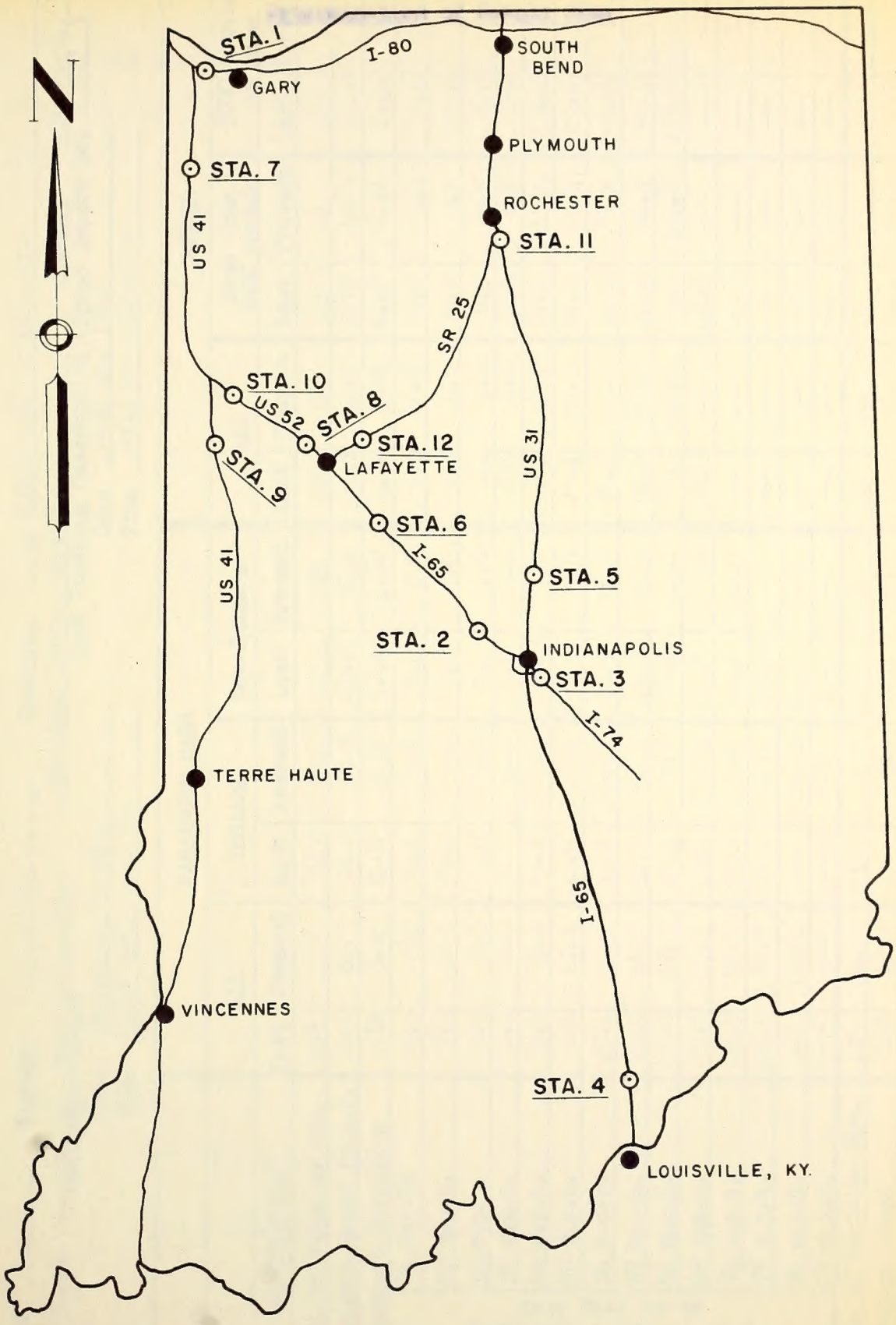


FIG. 1 LOCATIONS OF SPEED-STUDY STATIONS

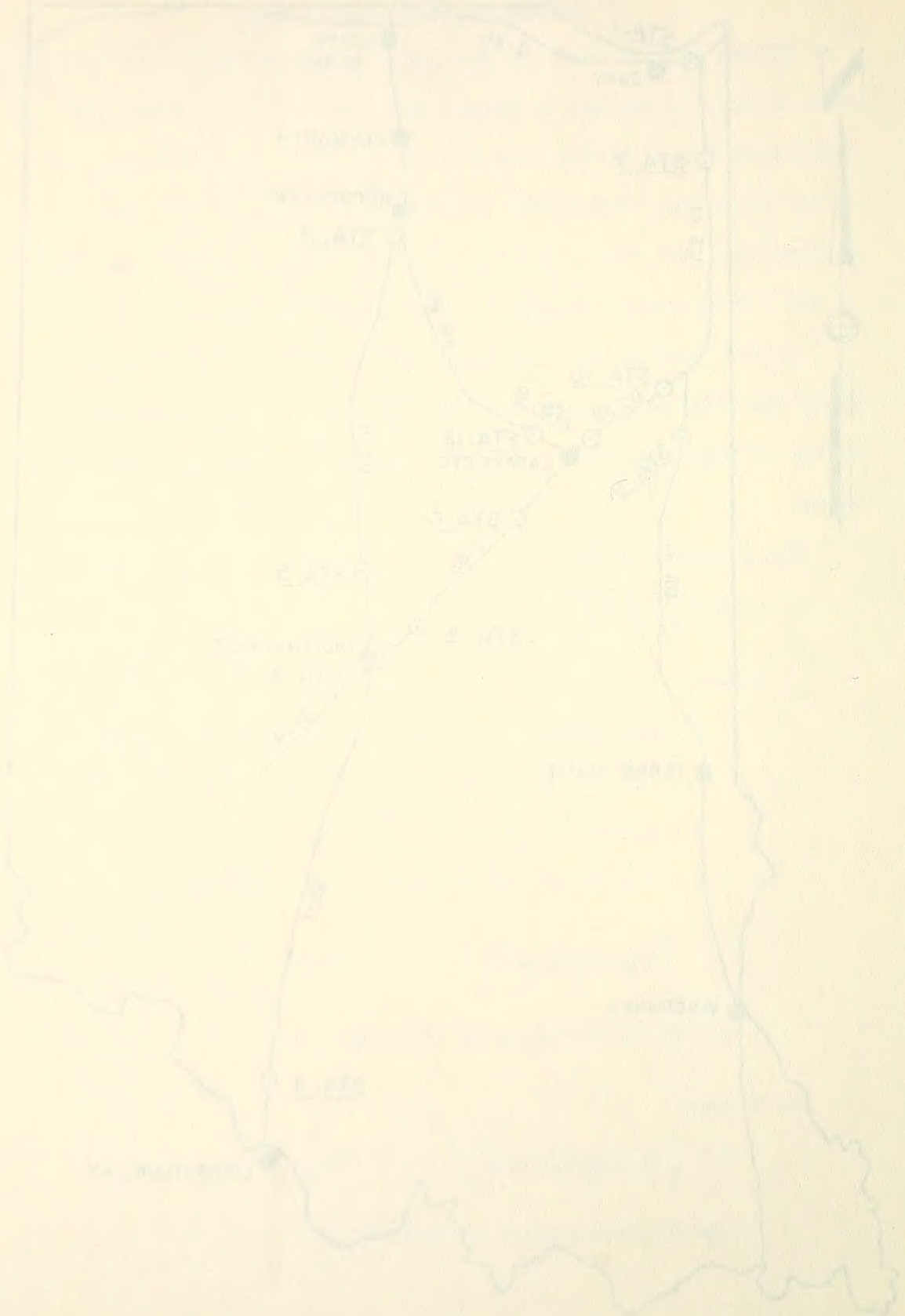


TABLE 1 SPEED DATA

Station 1 Highway I-80 Location 0.7 Mile East of S.R. 912

No. of Lanes 4 Type of Surface Portland Cement Concrete Weather Warm-Partly cloudy

This Observation — Date September 8, 1965 — Time 10:00 AM - 1:15 PM

Last Previous Observation (Speed Report No. 79) — Date July 29, 1964 — Time 9:15 AM - 12:45 PM

			PASSENGER CARS						TRUCKS					
			All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION			Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.		295	217	143	124	152	93	130	103	21	21	109	82
	Average speed (m.p.h.)		59.6	56.9	58.2	56.5	60.9	57.4	52.7	52.3	52.9	50.9	52.7	52.7
	Standard deviation		7.44	6.65	8.02	7.35	6.61	5.60	4.88	5.25	6.69	6.14	4.49	4.98
	% of vehicles traveling at or less than	24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		39 m.p.h.	0.3	0.0	0.7	0.0	0.0	0.0	0.0	1.0	0.0	4.8	0.0	0.0
		44 m.p.h.	4.1	3.2	6.3	3.2	2.0	3.2	6.2	8.7	4.8	14.3	6.4	7.3
		49 m.p.h.	8.1	15.2	11.9	20.2	4.6	8.6	25.4	31.1	38.1	47.6	22.9	26.8
		54 m.p.h.	23.1	30.9	32.2	34.7	14.5	25.8	63.1	65.1	57.1	71.4	64.2	63.4
		59 m.p.h.	48.5	62.7	54.5	64.5	42.8	60.2	92.3	93.2	81.0	90.5	94.5	93.9
		64 m.p.h.	73.6	90.3	79.0	89.5	68.4	91.4	99.2	100.0	95.2	100.0	100.0	100.0
		69 m.p.h.	92.9	97.7	95.1	96.8	90.8	98.9	100.0	---	100.0	---	---	---
		74 m.p.h.	98.3	98.2	97.2	96.8	99.3	100.0	---	---	---	---	---	---
		79 m.p.h.	100.0	99.5	100.0	99.2	100.0	---	---	---	---	---	---	---
		84 m.p.h.	---	100.0	---	100.0	---	---	---	---	---	---	---	---
		89 m.p.h.	---	---	---	---	---	---	---	---	---	---	---	---
W Bound	No. of vehicles obs.		155	94	95	56	60	38	69	46	10	12	59	34
	Average speed		58.6	56.2	57.6	56.0	60.3	56.5	52.3	50.7	50.1	49.8	52.7	51.1
E Bound	No. of vehicles obs.		140	123	48	68	92	55	61	57	11	9	50	48
	Average speed		60.7	57.4	59.6	56.9	61.3	58.1	53.1	53.6	55.4	52.3	52.6	53.8

TABLE 2 SPEED DATA

Station 2 Highway I-65 Location 1.0 Mile West of S.R. 334

No. of Lanes 4 Type of Surface Portland Cement Concrete Weather Hot-clear

This Observation — Date September 3, 1965 — Time 1:00 - 3:00 PM

Last Previous Observation (Speed Report No. 79) — Date July 23, 1964 — Time 1:40 - 4:00 PM

			PASSENGER CARS						TRUCKS					
			All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION			Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.		273	273	182	160	91	113	84	87	23	19	61	68
	Average speed (m.p.h.)		63.9	63.7	62.9	63.7	65.9	63.7	56.4	54.8	58.9	57.5	55.6	54.1
	Standard deviation		7.09	6.03	7.45	6.27	5.86	5.72	6.56	5.51	8.43	8.36	5.53	4.19
	% of vehicles traveling at or less than	24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		39 m.p.h.	0.0	0.4	0.0	0.0	0.0	0.9	1.2	0.0	0.0	0.0	1.6	0.0
		44 m.p.h.	1.1	0.4	1.7	0.0	0.0	0.9	3.6	2.3	0.0	0.0	4.9	2.9
		49 m.p.h.	3.3	1.8	5.0	1.2	0.0	2.7	11.9	12.6	17.4	26.3	9.8	8.8
		54 m.p.h.	10.6	7.7	13.7	7.5	4.4	8.0	34.5	50.6	34.8	31.6	34.4	55.9
		59 m.p.h.	15.0	18.7	29.1	22.5	8.8	13.3	70.2	78.2	43.5	52.6	78.7	85.3
		64 m.p.h.	51.3	55.7	55.5	58.1	42.9	52.2	91.7	93.1	78.3	68.4	96.7	100.0
		69 m.p.h.	78.8	87.6	81.3	85.0	73.6	91.2	96.4	100.0	87.0	100.0	100.0	---
		74 m.p.h.	95.2	97.1	95.6	96.3	94.5	98.2	98.8	---	95.7	---	---	---
		79 m.p.h.	98.9	98.9	98.9	98.8	98.9	99.1	100.0	---	100.0	---	---	---
		84 m.p.h.	100.0	99.6	100.0	99.4	100.0	100.0	---	---	---	---	---	---
		89 m.p.h.	---	100.0	---	100.0	---	---	---	---	---	---	---	---
E Bound	No. of vehicles obs.		140	130	103	86	37	44	38	50	13	9	25	41
	Average speed		64.3	63.4	64.1	64.1	64.9	62.1	58.0	54.8	59.8	56.8	57.1	54.3
W Bound	No. of vehicles obs.		133	143	79	74	54	69	46	37	10	10	36	27
	Average speed		63.4	63.8	61.3	63.2	66.5	64.6	55.3	54.9	57.7	58.2	54.6	53.6

TABLE 3 SPEED DATA

Station 3 Highway I-74 Location 1.0 Mile East of Post Road

No. of Lanes 4 Type of Surface Portland Cement Concrete Weather Hot-clear

This Observation — Date September 7, 1965 — Time 10:00 AM - 12:15 PM

Last Previous Observation (Speed Report No. 79) — Date July 22, 1964 — Time 10:15 AM - 1:00 PM

			PASSENGER CARS						TRUCKS					
			All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION			Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.		240	262	185	159	55	103	92	98	29	20	63	78
	Average speed (m.p.h.)		62.7	60.5	62.1	59.2	64.7	62.4	55.8	54.6	57.0	56.9	55.3	54.0
	Standard deviation		7.27	6.25	7.66	6.07	5.41	6.05	5.99	4.74	7.78	5.09	4.93	4.50
	% of vehicles traveling at or less than	24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		34 m.p.h.	0.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		39 m.p.h.	0.4	0.0	0.5	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	2.6
		44 m.p.h.	0.8	1.9	1.1	2.5	0.0	1.0	4.3	2.0	6.9	0.0	3.2	2.6
		49 m.p.h.	5.4	5.7	7.0	7.6	0.0	2.9	15.2	11.2	17.2	10.0	14.3	11.5
		54 m.p.h.	11.7	16.8	14.1	20.1	3.6	11.7	33.7	44.9	31.0	30.0	34.9	48.7
		59 m.p.h.	30.8	35.5	34.6	42.8	18.2	24.3	79.3	82.7	65.5	60.0	85.7	88.5
		64 m.p.h.	53.3	72.9	56.2	79.3	43.6	63.1	92.4	99.0	82.8	95.0	96.8	100.0
		69 m.p.h.	82.9	95.8	83.2	98.7	81.8	91.3	98.9	100.0	96.6	100.0	100.0	---
		74 m.p.h.	96.7	99.6	96.2	100.0	98.2	99.0	98.9	---	96.6	---	---	---
		79 m.p.h.	100.0	100.0	100.0	---	100.0	100.0	100.0	---	100.0	---	---	---
		84 m.p.h.	---	---	---	---	---	---	---	---	---	---	---	---
		89 m.p.h.	---	---	---	---	---	---	---	---	---	---	---	---
E Bound	No. of vehicles obs.		113	119	88	84	25	35	41	61	14	11	27	50
	Average speed		63.0	60.8	62.5	60.0	64.8	62.6	55.6	54.6	56.2	55.4	55.3	54.4
W Bound	No. of vehicles obs.		127	143	97	75	30	68	51	37	15	9	36	28
	Average speed		62.5	60.2	61.8	58.2	64.6	62.4	56.0	54.6	57.8	58.7	55.3	53.3

TABLE 4 SPEED DATA

Station 4 Highway I-65 Location 2.9 Mile North of S.R. 160

No. of Lanes 4 Type of Surface Portland Cement Concrete Weather Warm-partly cloudy

This Observation — Date September 10, 1965 — Time 1:30 - 4:00 PM

Last Previous Observation (Speed Report No. 79) — Date July 21, 1964 — Time 1:00 - 5:00 PM

			PASSENGER CARS						TRUCKS					
			All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION			Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.		226	247	102	125	124	122	95	113	25	17	70	96
	Average speed (m.p.h.)		65.5	64.4	64.7	65.1	66.1	63.8	56.7	53.9	58.0	54.8	56.3	53.8
	Standard deviation		6.80	6.63	6.63	6.78	6.90	6.44	6.67	5.44	7.91	6.62	6.18	5.23
	% of vehicles traveling at or less than	24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.4	0.0
		34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.4	0.0
		39 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	4.0	0.0	1.4	0.0
		44 m.p.h.	0.9	0.0	1.0	0.0	0.8	0.0	3.2	6.2	4.0	5.9	2.9	6.3
		49 m.p.h.	0.9	2.0	1.0	2.4	0.8	1.6	7.4	21.2	8.0	23.5	7.1	20.8
		54 m.p.h.	5.3	8.1	7.8	7.2	3.2	9.0	32.6	51.3	24.0	35.3	35.7	54.2
		59 m.p.h.	20.8	19.0	22.5	15.2	19.4	23.0	70.5	82.3	64.0	82.4	72.9	82.3
		64 m.p.h.	41.2	49.8	44.1	47.2	38.7	52.5	89.5	98.2	80.0	94.1	92.9	99.0
		69 m.p.h.	72.6	80.2	75.5	76.0	70.2	84.4	96.8	100.0	88.0	100.0	100.0	100.0
		74 m.p.h.	93.4	95.1	95.1	94.4	91.9	95.9	100.0	---	100.0	---	---	---
		79 m.p.h.	97.8	98.8	99.0	98.4	96.8	99.2	---	---	---	---	---	---
		84 m.p.h.	99.6	100.0	100.0	100.0	99.2	100.0	---	---	---	---	---	---
		89 m.p.h.	100.0	---	---	---	100.0	---	---	---	---	---	---	---
N Bound	No. of vehicles obs.		113	125	50	67	63	58	50	55	14	7	36	48
	Average speed		65.2	64.4	64.5	64.8	65.7	63.9	56.7	54.4	58.4	54.3	56.0	54.5
S Bound	No. of vehicles obs.		113	122	52	58	61	64	45	58	11	10	34	48
	Average speed		65.8	64.5	64.8	65.3	66.6	63.7	56.8	53.5	57.5	55.1	56.5	53.1

TABLE 5 SPEED DATA

Station 5 Highway U.S. 31 Location 1.2 Mile South of S.R. 38

No. of Lanes 4 Type of Surface Asphaltic Concrete Weather Warm-partly cloudy

This Observation
Date September 7, 1965
Time 1:00 -3:00 PM

Last Previous Observation (Speed Report No. 79)
Date July 22, 1964
Time 3:00 - 6:00 PM

			PASSENGER CARS						TRUCKS					
			All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION			Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.		285	245	241	206	44	39	77	115	34	33	43	82
	Average speed (m.p.h.)		62.1	60.9	62.1	60.7	62.2	61.9	55.4	54.0	56.7	57.7	54.4	52.6
	Standard deviation		7.64	7.04	7.58	7.31	8.06	5.37	7.08	6.29	7.62	6.94	6.53	5.39
	% of vehicles traveling at or less than	24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		29 m.p.h.	0.4	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		34 m.p.h.	0.4	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		39 m.p.h.	0.7	0.0	0.4	0.0	2.3	0.0	2.6	1.7	2.9	0.0	2.3	2.4
		44 m.p.h.	2.1	2.0	2.1	2.4	2.3	0.0	6.5	6.1	2.9	6.1	9.3	6.1
		49 m.p.h.	6.7	6.1	7.1	7.3	4.6	0.0	19.5	20.0	17.7	9.1	20.9	24.4
		54 m.p.h.	15.4	17.1	15.8	18.5	13.6	10.3	40.3	53.0	35.3	30.3	44.2	62.2
		59 m.p.h.	33.0	38.4	34.0	38.8	27.3	35.9	74.0	80.9	67.7	60.6	79.1	89.0
		64 m.p.h.	59.0	69.4	59.3	69.4	56.8	69.2	90.9	95.7	82.4	84.9	97.7	100.0
		69 m.p.h.	85.3	89.4	84.7	88.8	88.6	92.3	96.1	98.3	94.1	93.9	97.7	---
		74 m.p.h.	97.5	98.8	97.1	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	---
		79 m.p.h.	99.7	100.0	99.6	100.0	---	---	---	---	---	---	---	---
		84 m.p.h.	100.0	---	100.0	---	---	---	---	---	---	---	---	---
		89 m.p.h.	---	---	---	---	---	---	---	---	---	---	---	---
N Bound	No. of vehicles obs.		142	120	120	103	22	17	39	60	16	18	23	42
	Average speed		62.3	58.7	62.3	58.4	62.2	60.0	55.3	54.1	57.5	57.4	53.7	52.7
S Bound	No. of vehicles obs.		143	125	121	103	22	12	38	55	18	15	20	40
	Average speed		62.0	63.1	61.9	63.0	62.3	63.4	55.6	54.0	56.0	57.9	55.2	52.5

TABLE 6 SPEED DATA

Station 6 Highway U.S. 52 Location 1.0 Mile South of S.R. 28

No. of Lanes 4 Type of Surface Asphaltic Concrete Weather Hot-clear

This Observation
Date August 20, 1965
Time 9:30 - 11:45 AM

Last Previous Observation (Speed Report No. 79)
Date July 23, 1964
Time 10:30 AM - 1:00 PM

			PASSENGER CARS						TRUCKS					
			All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION			Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.		254	216	126	106	128	110	100	77	25	30	75	47
	Average speed (m.p.h.)		63.8	61.2	63.1	60.3	64.6	62.0	55.6	55.0	55.6	55.2	55.5	54.8
	Standard deviation		7.26	6.40	7.94	6.63	6.61	6.09	6.35	5.30	8.72	5.69	5.42	5.09
	% of vehicles traveling at or less than	24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		34 m.p.h.	0.4	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		39 m.p.h.	0.4	0.5	0.8	0.0	0.0	0.9	2.0	0.0	4.0	0.0	1.3	0.0
		44 m.p.h.	2.0	2.3	2.4	2.8	1.6	1.8	5.0	2.6	8.0	3.3	4.0	2.1
		49 m.p.h.	5.9	3.7	7.1	4.7	4.7	2.7	15.0	16.9	28.0	16.7	10.7	17.0
		54 m.p.h.	8.6	14.8	11.9	19.8	5.5	10.0	38.0	49.4	40.0	50.0	37.3	48.9
		59 m.p.h.	19.3	31.9	23.0	34.9	15.6	29.1	77.0	84.4	68.0	80.0	80.0	87.2
		64 m.p.h.	49.6	73.2	54.0	76.4	45.3	70.0	94.0	93.5	88.0	93.3	96.0	93.6
		69 m.p.h.	79.9	91.7	79.4	92.5	80.5	90.9	98.0	100.0	92.0	100.0	100.0	100.0
		74 m.p.h.	96.1	99.1	96.0	99.1	96.1	99.1	100.0	---	100.0	---	---	---
		79 m.p.h.	98.0	99.5	98.4	99.1	97.7	100.0	---	---	---	---	---	---
		84 m.p.h.	100.0	100.0	100.0	100.0	100.0	---	---	---	---	---	---	---
		89 m.p.h.	---	---	---	---	---	---	---	---	---	---	---	---
W Bound	No. of vehicles obs.		130	105	69	48	61	57	57	41	14	15	43	26
	Average speed		63.9	62.8	63.0	61.4	64.9	64.0	54.9	56.2	52.6	56.0	55.6	56.4
E Bound	No. of vehicles obs.		124	111	57	58	67	53	43	36	11	15	32	21
	Average speed		63.7	59.6	63.1	59.4	64.2	59.8	56.5	53.5	59.5	54.4	55.5	52.9

TABLE 7 SPEED DATA

Station 7 Highway U.S. 41 Location 1.0 Mile North of S.R. 2

No. of Lanes 4 Type of Surface Portland Cement Concrete Weather Warm-partly cloudy

This Observation
Date September 9, 1965
Time 10:00 AM - 12:15 PM

Last Previous Observation (Speed Report No. 79)
Date July 28, 1964
Time 12:15 - 4:00 PM

			PASSENGER CARS						TRUCKS					
			All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION			Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.		283	239	130	119	153	120	136	121	38	12	98	109
	Average speed (m.p.h.)		61.9	61.4	60.9	60.0	62.8	62.9	54.5	53.0	55.1	53.3	54.2	53.0
	Standard deviation		7.43	6.46	7.96	6.34	6.85	6.28	6.80	5.09	9.96	6.79	5.13	4.90
	% of vehicles traveling at or less than	24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		39 m.p.h.	0.7	0.0	1.5	0.0	0.0	0.0	0.7	0.0	2.6	0.0	0.0	0.0
		44 m.p.h.	1.4	1.3	3.1	1.7	0.0	0.8	8.8	5.8	15.8	8.3	6.1	5.5
		49 m.p.h.	5.3	4.6	8.5	5.9	2.6	3.3	16.9	21.5	31.6	25.0	11.2	21.1
		54 m.p.h.	14.8	14.6	18.5	21.0	11.8	8.3	47.1	65.3	50.0	66.7	45.9	65.1
		59 m.p.h.	33.6	32.2	34.6	41.2	32.7	23.3	80.2	89.3	63.2	75.0	86.7	90.8
		64 m.p.h.	63.6	67.8	68.5	75.6	59.5	60.0	94.1	97.5	79.0	100.0	100.0	97.3
		69 m.p.h.	84.5	91.2	86.2	94.1	83.0	88.3	97.8	100.0	91.2	---	---	100.0
		74 m.p.h.	96.8	98.7	96.9	100.0	96.7	97.5	99.3	---	97.4	---	---	---
		79 m.p.h.	99.7	99.6	100.0	---	99.4	99.2	100.0	---	100.0	---	---	---
		84 m.p.h.	100.0	100.0	---	---	100.0	100.0	---	---	---	---	---	---
		89 m.p.h.	---	---	---	---	---	---	---	---	---	---	---	---
N Bound	No. of vehicles obs.		119	108	53	65	66	43	52	72	12	3	40	69
	Average speed		62.6	61.2	60.5	59.3	64.3	64.2	53.0	51.5	54.3	52.7	49.5	51.4
S Bound	No. of vehicles obs.		164	131	77	54	87	77	84	49	26	9	58	40
	Average speed		61.4	61.6	61.2	60.9	61.7	62.1	55.4	55.3	55.5	53.6	55.4	55.7

TABLE 8 SPEED DATA

Station 8 Highway U.S. 52 Location 1.0 Mile West of Klondyke

No. of Lanes 4 Type of Surface Portland Cement Concrete Weather Warm-clear

This Observation
Date September 17, 1965
Time 2:30 - 5:00 PM

Last Previous Observation (Speed Report No. 79)
Date July 2, 1964
Time 1:30 - 5:00 PM

			PASSENGER CARS						TRUCKS					
			All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION			Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.		248	283	141	170	107	113	99	77	22	25	77	52
	Average speed (m.p.h.)		60.1	60.4	59.0	59.4	61.7	61.9	53.4	52.9	51.7	54.1	53.9	52.4
	Standard deviation		6.87	6.25	7.59	6.44	5.46	5.65	6.40	5.59	6.26	7.41	6.40	4.45
	% of vehicles traveling at or less than	24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		39 m.p.h.	0.0	0.4	0.0	0.6	0.0	0.0	1.0	0.0	0.0	0.0	1.3	0.0
		44 m.p.h.	1.6	1.1	2.8	1.2	0.0	0.9	10.1	5.2	18.2	8.0	7.8	3.9
		49 m.p.h.	7.3	5.0	12.1	7.1	1.0	1.8	26.3	31.2	40.9	36.0	22.1	28.9
		54 m.p.h.	17.7	17.0	24.8	22.4	8.4	8.9	53.5	55.8	68.2	48.0	49.4	59.6
		59 m.p.h.	45.2	40.6	52.5	48.2	35.5	29.2	82.8	87.0	86.4	72.0	81.8	94.2
		64 m.p.h.	76.6	72.4	82.3	77.1	69.2	65.5	95.0	97.4	100.0	92.0	93.5	100.0
		69 m.p.h.	92.3	93.3	92.2	94.7	92.5	91.2	100.0	100.0	---	100.0	100.0	---
		74 m.p.h.	97.2	99.7	96.5	100.0	98.1	99.1	--	---	---	---	---	---
		79 m.p.h.	99.2	100.0	98.6	---	100.0	100.0	---	---	---	---	---	---
		84 m.p.h.	100.0	---	100.0	---	---	---	---	---	---	---	---	---
		89 m.p.h.	---	---	---	---	---	---	---	---	---	---	---	---
W Bound	No. of vehicles obs.		124	141	70	81	54	60	61	39	14	14	47	25
	Average speed		61.7	59.5	59.8	58.1	61.8	61.4	55.6	51.8	52.7	52.1	56.3	51.6
E Bound	No. of vehicles obs.		124	142	71	89	53	53	38	38	8	11	30	27
	Average speed		59.6	61.4	58.2	60.7	61.6	62.6	50.2	54.1	50.0	56.6	50.2	53.1

TABLE 9 SPEED DATA

Station 9 Highway U.S. 41 Location 1.0 Mile North of Boswell

No. of Lanes 2 Type of Surface Portland Cement Concrete Weather Warm-clear

This Observation
Date August 16, 1965
Time 12:00 - 4:30 PM

Last Previous Observation (Speed Report No. 79)
Date July 10, 1964
Time 1:30 - 4:00 PM

		PASSENGER CARS						TRUCKS					
		All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION		Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.	256	205	118	98	138	107	86	131	26	29	60	102
	Average speed (m.p.h.)	59.6	57.4	59.3	58.0	59.8	56.8	51.5	50.4	53.0	54.8	50.8	49.1
	Standard deviation	7.02	7.28	7.52	7.74	6.58	6.81	6.53	6.55	9.56	7.67	4.61	5.64
	% of vehicles traveling at or less than 24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	1.0
	39 m.p.h.	0.0	0.5	0.0	1.0	0.0	0.0	3.5	2.2	11.5	0.0	0.0	2.9
	44 m.p.h.	1.2	3.9	2.5	2.0	0.0	5.6	9.3	15.3	23.1	6.9	3.3	17.7
	49 m.p.h.	8.6	13.2	11.0	12.2	6.5	14.0	37.2	50.4	34.6	27.6	38.3	56.9
	54 m.p.h.	23.4	33.7	24.6	31.6	22.5	35.5	69.8	73.3	50.0	48.3	78.3	80.4
	59 m.p.h.	46.5	62.0	49.2	59.2	44.2	64.5	86.0	88.6	65.4	62.1	95.0	96.1
	64 m.p.h.	77.3	84.9	76.3	78.6	78.3	90.7	96.5	97.7	88.5	89.7	100.0	100.0
	69 m.p.h.	93.4	95.1	93.2	92.9	93.5	97.2	100.0	100.0	100.0	100.0	---	---
	74 m.p.h.	96.9	99.0	95.8	98.0	97.8	100.0	---	---	---	---	---	---
	79 m.p.h.	100.0	100.0	100.0	100.0	100.0	---	---	---	---	---	---	---
	84 m.p.h.	---	---	---	---	---	---	---	---	---	---	---	---
	89 m.p.h.	---	---	---	---	---	---	---	---	---	---	---	---
N Bound	No. of vehicles obs.	128	101	58	52	70	49	45	79	13	19	32	60
	Average speed	59.6	58.1	59.3	59.3	59.9	56.7	51.8	50.6	53.7	56.4	51.1	48.7
S Bound	No. of vehicles obs.	128	104	60	46	68	58	41	52	13	10	28	42
	Average speed	59.5	56.7	59.2	56.6	59.8	56.8	51.1	50.1	52.2	51.6	50.6	49.7

TABLE 10 SPEED DATA

Station 10 Highway U.S. 52 Location 2.0 Mile North of Templeton

No. of Lanes 2 Type of Surface Asphaltic Concrete Weather Warm-clear

This Observation
Date August 19, 1965
Time 9:30 - 11:15 AM

Last Previous Observation (Speed Report No. 79)
Date July 10, 1964
Time 8:45 - 11:15 AM

		PASSENGER CARS						TRUCKS					
		All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION		Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.	247	190	86	68	161	122	104	68	26	20	78	48
	Average speed (m.p.h.)	60.1	58.8	59.2	58.5	60.6	58.9	53.3	51.5	53.7	50.8	53.2	51.8
	Standard deviation	5.82	4.95	6.10	4.59	5.61	5.14	4.82	5.01	4.67	5.97	4.90	4.59
	% of vehicles traveling at or less than: 24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	39 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.5	0.0	5.0	1.3	0.0
	44 m.p.h.	0.8	0.0	1.2	0.0	0.6	0.0	4.8	10.3	3.8	20.0	5.1	6.3
	49 m.p.h.	1.2	2.2	2.3	3.2	0.6	1.6	24.0	32.4	23.1	40.0	24.4	29.2
	54 m.p.h.	15.4	18.9	19.8	19.1	13.0	18.9	55.8	69.1	57.7	65.0	55.1	70.8
	59 m.p.h.	46.6	58.4	54.7	61.9	42.2	56.6	89.4	95.6	88.5	100.0	89.7	93.8
	64 m.p.h.	78.5	86.0	81.4	90.5	77.0	83.6	100.0	100.0	100.0	---	100.0	100.0
	69 m.p.h.	93.9	97.8	93.0	98.4	94.4	97.5	---	---	---	---	---	---
	74 m.p.h.	99.2	100.0	98.8	100.0	99.4	100.0	---	---	---	---	---	---
	79 m.p.h.	100.0	---	100.0	---	100.0	---	---	---	---	---	---	---
	84 m.p.h.	---	---	---	---	---	---	---	---	---	---	---	---
	89 m.p.h.	---	---	---	---	---	---	---	---	---	---	---	---
S Bound	No. of vehicles obs.	126	93	43	29	83	64	51	39	13	12	38	27
	Average speed	60.3	59.1	59.1	58.2	60.9	59.4	53.7	52.3	53.6	50.2	53.7	53.2
N Bound	No. of vehicles obs.	121	97	43	39	78	58	53	29	13	8	40	21
	Average speed	60.0	58.6	59.2	58.7	60.4	58.5	52.9	50.4	53.8	51.8	52.6	49.9

TABLE 11 SPEED DATA

Station 11 Highway U.S. 31 Location 3.0 Mile South of Rochester

No. of Lanes 2 Type of Surface Asphaltic Concrete Weather Warm-clear

This Observation — Date September 10, 1965 — Time 9:00 AM - 12:30 PM

Last Previous Observation (Speed Report No. 79) — Date July 16, 1964 — Time 11:15 AM - 2:30 PM

		PASSENGER CARS						TRUCKS					
		All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION		Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.	255	261	194	180	61	81	100	99	30	35	70	64
	Average speed (m.p.h.)	59.1	58.9	59.1	59.5	59.2	57.6	52.6	53.5	55.9	56.6	51.2	51.8
	Standard deviation	7.15	7.54	7.37	7.60	6.46	7.28	6.98	6.82	8.64	8.88	5.63	4.63
	% of vehicles traveling at or less than 24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	3.3	2.9	0.0	0.0
	39 m.p.h.	0.8	0.4	0.5	0.6	1.6	0.0	2.0	1.0	3.3	2.9	1.4	0.0
	44 m.p.h.	3.1	3.8	3.1	3.9	3.3	3.7	12.0	7.1	6.7	8.6	14.3	6.3
	49 m.p.h.	8.6	11.1	9.3	11.7	6.6	9.9	31.0	22.2	16.7	17.1	37.1	25.0
	54 m.p.h.	23.1	25.3	24.7	20.6	18.0	35.8	63.0	58.6	46.7	40.0	70.0	68.8
	59 m.p.h.	49.0	51.7	50.5	48.3	44.3	59.3	84.0	87.9	63.3	68.6	92.9	98.4
	64 m.p.h.	77.3	80.1	75.3	77.8	83.6	85.2	93.0	95.0	76.7	85.7	100.0	100.0
	69 m.p.h.	93.7	92.0	93.8	91.1	93.4	93.8	99.0	97.0	96.7	91.4	---	---
	74 m.p.h.	98.8	98.5	98.5	98.3	100.0	98.8	100.0	99.0	100.0	97.1	---	---
	79 m.p.h.	99.6	99.2	99.5	99.4	---	98.8	---	100.0	---	100.0	---	---
	84 m.p.h.	100.0	99.6	100.0	99.4	---	100.0	---	---	---	---	---	---
	89 m.p.h.	---	*99.6	---	*99.4	---	---	---	---	---	---	---	---
N Bound	No. of vehicles obs.	132	124	102	88	30	36	54	56	16	20	38	36
	Average speed	59.3	58.3	59.0	60.5	60.0	57.4	52.6	53.8	55.4	54.0	51.4	53.7
S Bound	No. of vehicles obs.	123	137	92	92	31	45	46	43	14	15	32	28
	Average speed	58.9	59.6	59.1	58.6	58.5	57.8	52.6	53.2	56.5	60.1	50.9	49.4

* one car, 91 m.p.h.

TABLE 12 SPEED DATA

Station 12 Highway S.R. 25 Location 0.7 Mile West of Americus

No. of Lanes 2 Type of Surface Asphaltic Concrete Weather Warm-clear

This Observation
Date September 2, 1965
Time 1:00 - 4:00 PM

Last Previous Observation (Speed Report No. 79)
Date July 8, 1964
Time 2:00 - 4:45 PM

		PASSENGER CARS						TRUCKS					
		All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION		Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.	198	216	174	190	24	26	62	64	28	28	34	36
	Average speed (m.p.h.)	59.1	57.1	58.9	56.9	60.2	58.1	51.7	52.1	52.7	53.3	50.9	51.1
	Standard deviation	7.34	6.72	7.28	6.75	7.88	6.60	7.19	6.14	8.15	6.71	6.30	5.57
	% of vehicles traveling at or less than 24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	3.6	0.0	0.0	0.0
	39 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	3.6	0.0	2.9	0.0
	44 m.p.h.	1.5	4.6	1.7	5.3	0.0	0.0	17.7	9.4	14.3	3.6	20.6	13.9
	49 m.p.h.	6.6	12.0	6.9	12.6	4.2	7.7	38.7	31.3	39.3	28.6	38.2	33.3
	54 m.p.h.	28.3	34.7	28.7	35.3	25.0	30.8	64.5	68.8	53.6	60.7	73.5	75.0
	59 m.p.h.	57.1	63.9	56.9	64.2	58.3	61.5	83.9	87.5	78.6	82.1	88.2	91.7
	64 m.p.h.	78.8	85.7	79.3	86.3	75.0	80.8	96.8	95.3	92.9	89.3	100.0	100.0
	69 m.p.h.	91.9	97.2	93.1	97.4	83.3	96.2	98.4	100.0	96.4	100.0	---	---
	74 m.p.h.	96.5	99.5	97.1	99.5	91.7	100.0	100.0	---	100.0	---	---	---
	79 m.p.h.	99.5	100.0	99.4	100.0	100.0	---	---	---	---	---	---	---
	84 m.p.h.	100.0	---	100.0	---	---	---	---	---	---	---	---	---
	89 m.p.h.	---	---	---	---	---	---	---	---	---	---	---	---
N Bound	No. of vehicles obs.	104	140	93	123	11	17	32	40	14	15	18	25
	Average speed	58.9	56.2	58.8	56.1	59.9	56.7	51.9	50.8	52.3	52.1	51.6	50.0
S Bound	No. of vehicles obs.	94	76	81	67	13	9	30	24	14	13	16	11
	Average speed	59.3	58.7	59.1	58.4	60.4	60.8	51.4	54.3	53.0	54.7	50.0	53.7

TABLE 13 SPEED DATA

Station 1,2,3,4 Highway Interstate Location see individual stations

No. of Lanes ____ Type of Surface ____ Weather ____

This Observation — Date ____ Time ____

Last Previous Observation (Speed Report No. ____) — Date ____ Time ____

		PASSENGER CARS						TRUCKS					
		All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION		Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.	1034	999	612	568	422	431	401	401	98	77	303	324
	Average speed (m.p.h.)	62.7	61.5	61.9	61.2	64.0	62.1	55.2	53.9	56.8	54.9	54.6	53.6
	Standard deviation	7.49	6.99	7.82	7.35	6.81	6.46	6.19	5.31	7.94	7.02	5.41	4.80
	% of vehicles traveling at or less than 24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3	0.0
	34 m.p.h.	0.1	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3	0.0
	39 m.p.h.	0.2	0.1	0.3	0.0	0.0	0.2	0.7	0.8	1.0	1.3	0.7	0.6
	44 m.p.h.	1.8	1.3	2.4	1.4	0.9	1.2	4.5	5.0	4.1	5.2	4.6	4.9
	49 m.p.h.	4.6	5.8	6.5	7.4	1.9	3.7	16.0	19.5	19.4	27.3	14.9	17.6
	54 m.p.h.	13.3	15.2	17.2	16.9	7.6	13.0	43.1	53.1	35.7	42.9	45.5	55.6
	59 m.p.h.	31.4	32.7	35.6	35.7	25.4	28.8	79.6	84.3	64.3	71.4	84.5	87.4
	64 m.p.h.	55.9	66.3	50.3	68.5	50.9	63.3	93.8	97.8	83.7	89.6	97.0	99.7
	69 m.p.h.	82.4	90.1	84.2	89.4	79.9	91.0	98.3	100.0	92.9	100.0	100.0	100.0
	74 m.p.h.	96.0	97.5	96.1	97.0	96.0	98.1	99.5	---	98.0	---	---	---
	79 m.p.h.	99.2	99.3	99.5	99.1	98.8	99.5	100.0	---	100.0	---	---	---
	84 m.p.h.	100.0	99.9	100.0	99.8	100.0	100.0	---	---	---	---	---	---
	89 m.p.h.	---	100.0	---	100.0	---	---	---	---	---	---	---	---
Bound	No. of vehicles obs.	---	---	---	---	---	---	---	---	---	---	---	---
	Average speed	---	---	---	---	---	---	---	---	---	---	---	---
Bound	No. of vehicles obs.	---	---	---	---	---	---	---	---	---	---	---	---
	Average speed	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 14 SPEED DATA

Station 5,6,7,8 Highway 4 lane Location see individual stations

No. of Lanes _____ Type of Surface _____ Weather _____

This Observation — Date _____ Time _____

Last Previous Observation (Speed Report No. _____) — Date _____ Time _____

		PASSENGER CARS						TRUCKS					
		All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION		Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.	1070	983	638	601	432	382	412	390	119	100	293	290
	Average speed (m.p.h.)	62.0	61.0	61.4	60.1	63.0	62.2	54.7	53.7	55.1	55.5	54.5	53.1
	Standard deviation	7.43	6.54	7.85	6.77	6.67	5.95	6.68	5.64	8.53	6.79	5.78	5.04
	% of vehicles traveling at or less than: 24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	29 m.p.h.	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	34 m.p.h.	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	39 m.p.h.	0.5	0.2	0.6	0.2	0.2	0.3	1.5	0.5	2.5	0.0	1.0	0.7
	44 m.p.h.	1.8	1.6	2.5	2.0	0.7	1.1	7.8	5.1	10.9	6.0	6.5	4.8
	49 m.p.h.	6.3	4.9	8.5	6.5	3.0	2.4	19.2	22.1	28.6	20.0	15.4	22.8
	54 m.p.h.	14.2	16.0	17.6	20.3	9.3	9.2	45.1	56.7	47.1	45.0	44.4	60.7
	59 m.p.h.	32.7	36.1	36.1	41.3	27.8	28.0	78.9	85.4	69.7	71.0	82.6	90.3
	64 m.p.h.	62.1	70.7	65.2	74.0	57.4	65.5	93.7	96.2	85.7	91.0	96.9	97.9
	69 m.p.h.	85.4	91.5	85.6	92.2	85.2	90.3	98.1	99.5	94.1	98.0	99.7	100.0
	74 m.p.h.	96.9	99.1	96.7	99.3	97.2	98.7	99.8	100.0	99.2	100.0	100.0	---
	79 m.p.h.	99.2	99.8	99.2	99.8	99.1	99.7	100.0	---	100.0	---	---	---
	84 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	---	---	---	---	---	---
	89 m.p.h.	---	---	---	---	---	---	---	---	---	---	---	---
Bound	No. of vehicles obs.	---	---	---	---	---	---	---	---	---	---	---	---
	Average speed	---	---	---	---	---	---	---	---	---	---	---	---
Bound	No. of vehicles obs.	---	---	---	---	---	---	---	---	---	---	---	---
	Average speed	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 15 SPEED DATA

Station 9,10,11,12 Highway 2 lanes Location see individual stations

No. of Lanes _____ Type of Surface _____ Weather _____

This Observation — Date _____ Time _____

Last Previous Observation (Speed Report No. _____) — Date _____ Time _____

			PASSENGER CARS						TRUCKS					
			All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION			Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.		956	872	572	536	384	336	352	362	110	112	242	250
	Average speed (m.p.h.)		59.5	58.1	59.1	58.2	60.1	57.9	52.4	51.7	53.9	54.3	51.7	50.6
	Standard deviation		6.84	6.83	7.18	7.10	6.26	6.40	6.36	6.39	7.99	7.76	5.33	5.31
	% of vehicles traveling at or less than	24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.8	0.9	0.0	0.4
		39 m.p.h.	0.2	0.2	0.2	0.4	0.3	0.0	2.3	1.4	4.5	1.8	1.2	1.2
		44 m.p.h.	1.7	3.2	2.3	3.6	0.8	2.7	10.2	11.1	11.8	8.9	9.5	12.0
		49 m.p.h.	6.3	9.9	7.9	11.1	3.9	8.0	31.8	35.9	28.2	26.8	33.5	40.0
		54 m.p.h.	22.3	28.3	25.2	27.7	18.0	29.2	62.8	67.7	51.8	51.8	67.8	74.8
		59 m.p.h.	49.4	58.6	52.8	57.6	44.3	60.1	86.1	89.5	73.6	75.9	91.7	95.6
		64 m.p.h.	77.9	83.9	77.6	82.5	78.4	86.0	96.6	97.0	89.1	90.2	100.0	100.0
		69 m.p.h.	93.3	95.3	93.4	94.5	93.2	96.4	99.4	99.2	98.2	97.3	---	---
		74 m.p.h.	97.9	99.2	97.6	98.9	98.4	99.7	100.0	99.7	100.0	99.1	---	---
		79 m.p.h.	99.8	99.7	99.7	99.6	100.0	99.7	---	100.0	---	100.0	---	---
		84 m.p.h.	100.0	99.9	100.0	99.8	---	100.0	---	---	---	---	---	---
		89 m.p.h.	---	*99.9	---	*99.8	---	---	---	---	---	---	---	---
Bound	No. of vehicles obs.		---	---	---	---	---	---	---	---	---	---	---	---
	Average speed		---	---	---	---	---	---	---	---	---	---	---	---
Bound	No. of vehicles obs.		---	---	---	---	---	---	---	---	---	---	---	---
	Average speed		---	---	---	---	---	---	---	---	---	---	---	---

* one car, 91 m.p.h.

TABLE 16 SPEED DATA

Station 1 thru 12 Highway all systems Location see individual stations

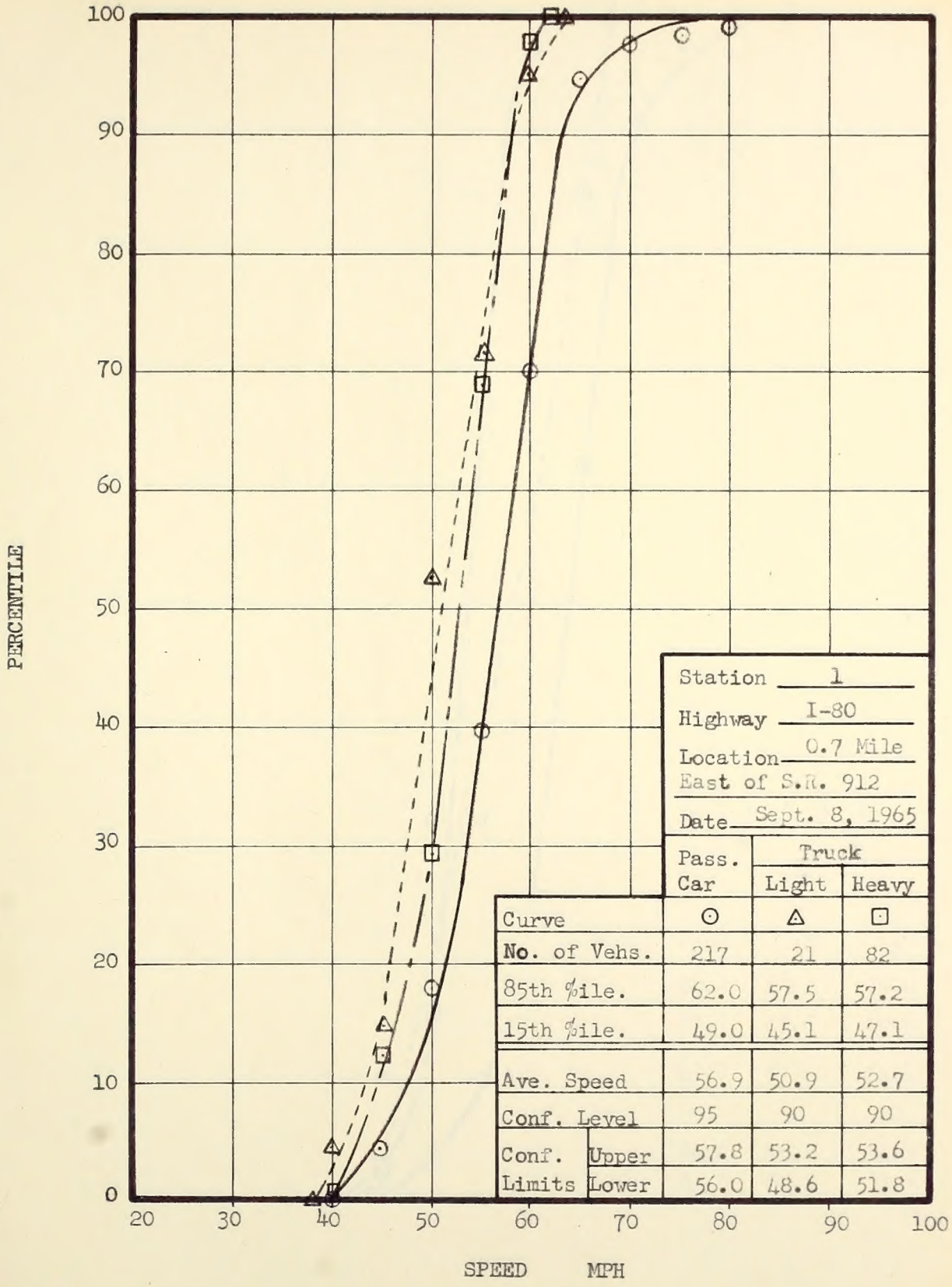
No. of Lanes ____ Type of Surface ____ Weather ____

This Observation — Date ____ Time ____

Last Previous Observation (Speed Report No. ____) — Date ____ Time ____

			PASSENGER CARS						TRUCKS					
			All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more	
OBSERVATION			Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All vehicles	No. of vehicles obs.		3060	2854	1822	1705	1238	1149	1165	1153	327	289	838	864
	Average speed (m.p.h.)		61.5	60.3	60.8	59.9	62.4	60.9	54.1	53.1	55.2	54.9	53.7	52.6
	Standard deviation		7.40	6.95	7.72	7.17	6.78	6.57	6.52	5.85	8.24	7.24	5.67	5.18
	% of vehicles traveling at or less than	24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		29 m.p.h.	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0
		34 m.p.h.	0.1	0.0	0.1	0.0	0.1	0.0	0.3	0.2	0.6	0.4	0.1	0.1
		39 m.p.h.	0.3	0.2	0.4	0.2	0.2	0.2	1.5	0.9	2.8	1.0	1.0	0.8
		44 m.p.h.	1.8	2.0	2.4	2.3	0.8	1.6	7.4	6.9	9.2	8.9	6.7	6.9
		49 m.p.h.	5.7	6.7	7.6	8.2	2.9	4.5	21.9	25.5	25.7	24.6	20.4	25.8
		54 m.p.h.	16.4	19.5	19.8	21.5	11.4	16.5	49.8	58.9	45.3	47.1	51.6	62.9
		59 m.p.h.	37.5	41.8	41.2	44.5	32.1	37.7	81.3	86.3	69.4	73.0	85.9	90.7
		64 m.p.h.	64.9	73.2	67.1	74.8	61.7	70.7	94.6	97.0	86.2	90.3	97.9	99.2
		69 m.p.h.	86.9	92.1	87.5	92.0	85.9	92.3	98.5	99.6	95.1	98.3	99.9	100.0
		74 m.p.h.	96.9	98.6	96.8	98.4	97.2	98.8	99.7	99.9	99.1	99.7	100.0	---
		79 m.p.h.	99.4	99.6	99.5	99.5	99.3	99.7	100.0	100.0	100.0	100.0	---	---
		84 m.p.h.	100.0	99.9	100.0	99.9	100.0	100.0	---	---	---	---	---	---
		89 m.p.h.	---	*99.9	---	*99.9	---	---	---	---	---	---	---	---
Bound	No. of vehicles Obs.		---	---	---	---	---	---	---	---	---	---	---	---
	Average speed		---	---	---	---	---	---	---	---	---	---	---	---
Bound	No. of vehicles obs.		---	---	---	---	---	---	---	---	---	---	---	---
	Average speed		---	---	---	---	---	---	---	---	---	---	---	---

* one car, 91 m.p.h.



		Pass. Car	Truck	
			Light	Heavy
Curve		⊙	△	⊡
No. of Vehs.		217	21	82
85th %ile.		62.0	57.5	57.2
15th %ile.		49.0	45.1	47.1
Ave. Speed		56.9	50.9	52.7
Conf. Level		95	90	90
Conf. Limits	Upper	57.8	53.2	53.6
	Lower	56.0	48.6	51.8

Figure 2. Accumulative Speed Curves

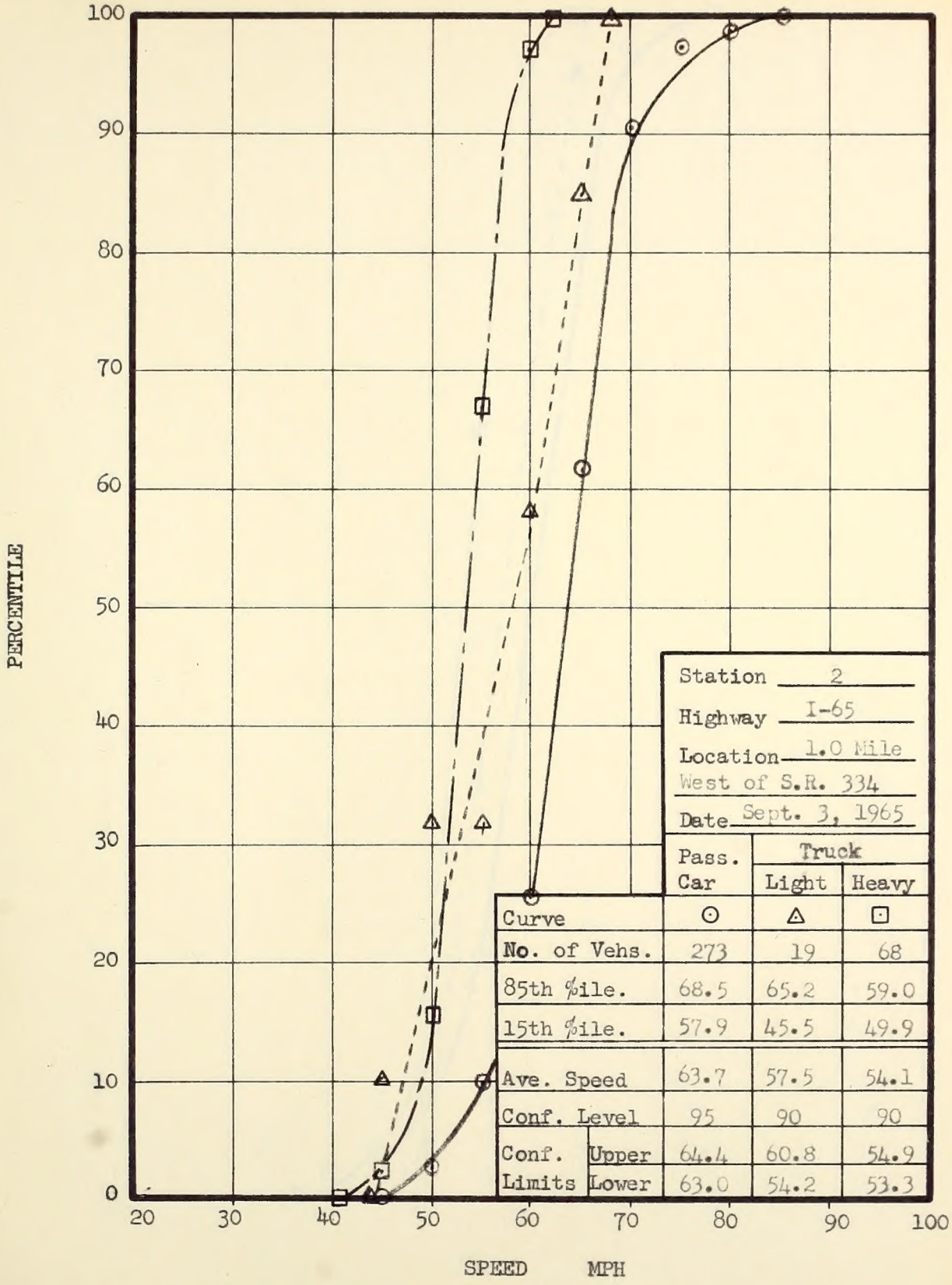


Figure 3. Accumulative Speed Curves

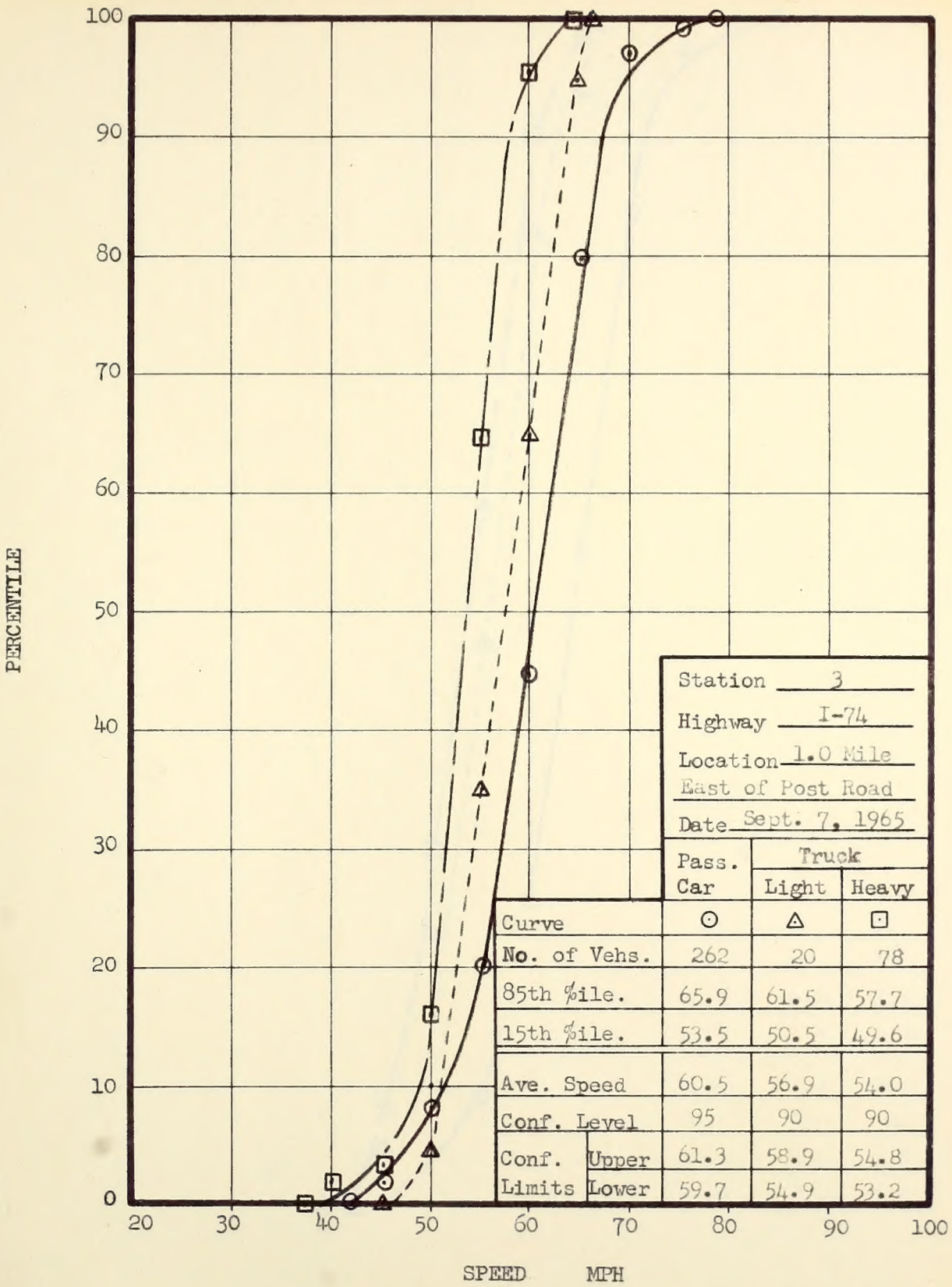


Figure 4. Accumulative Speed Curves

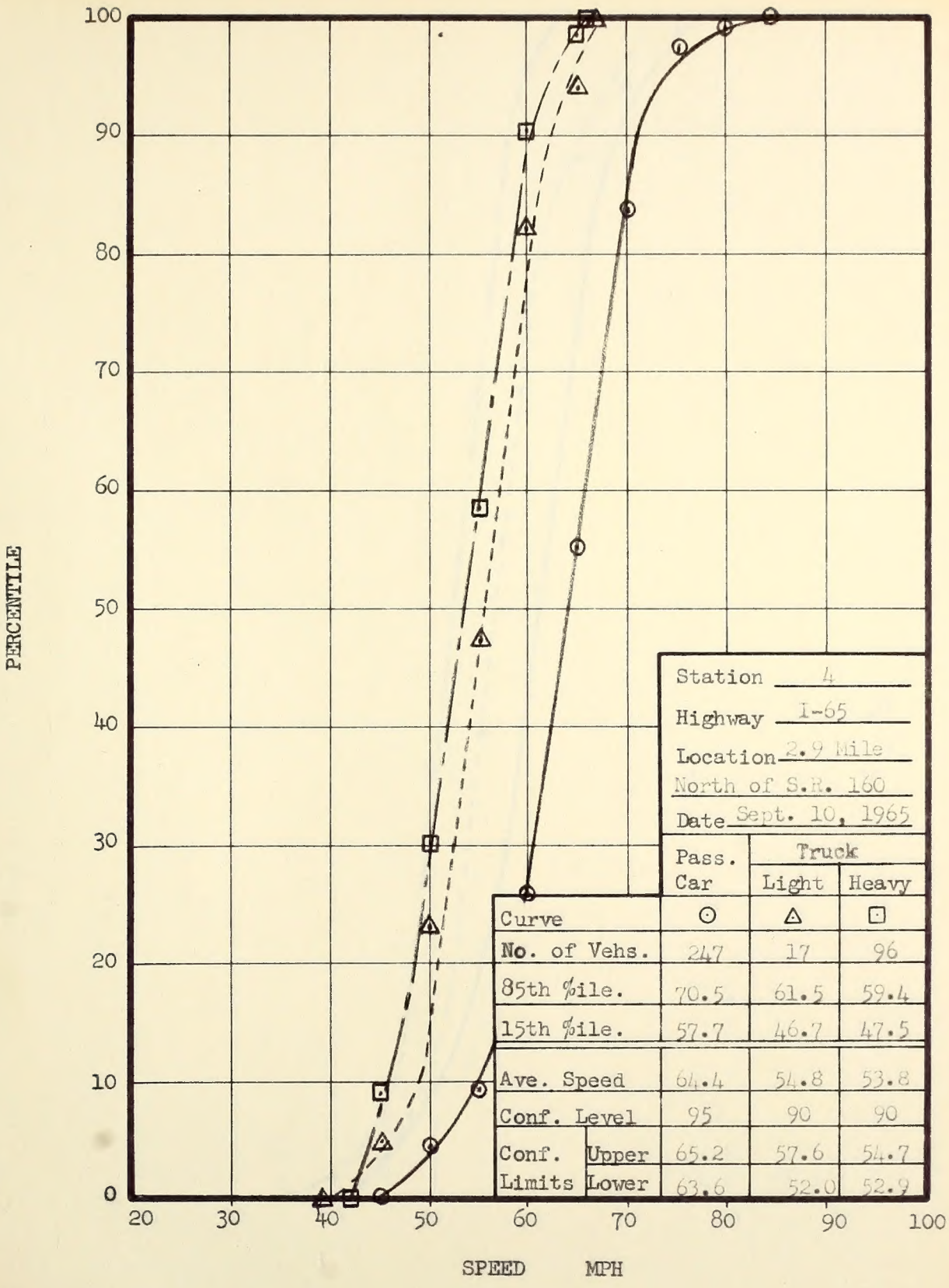
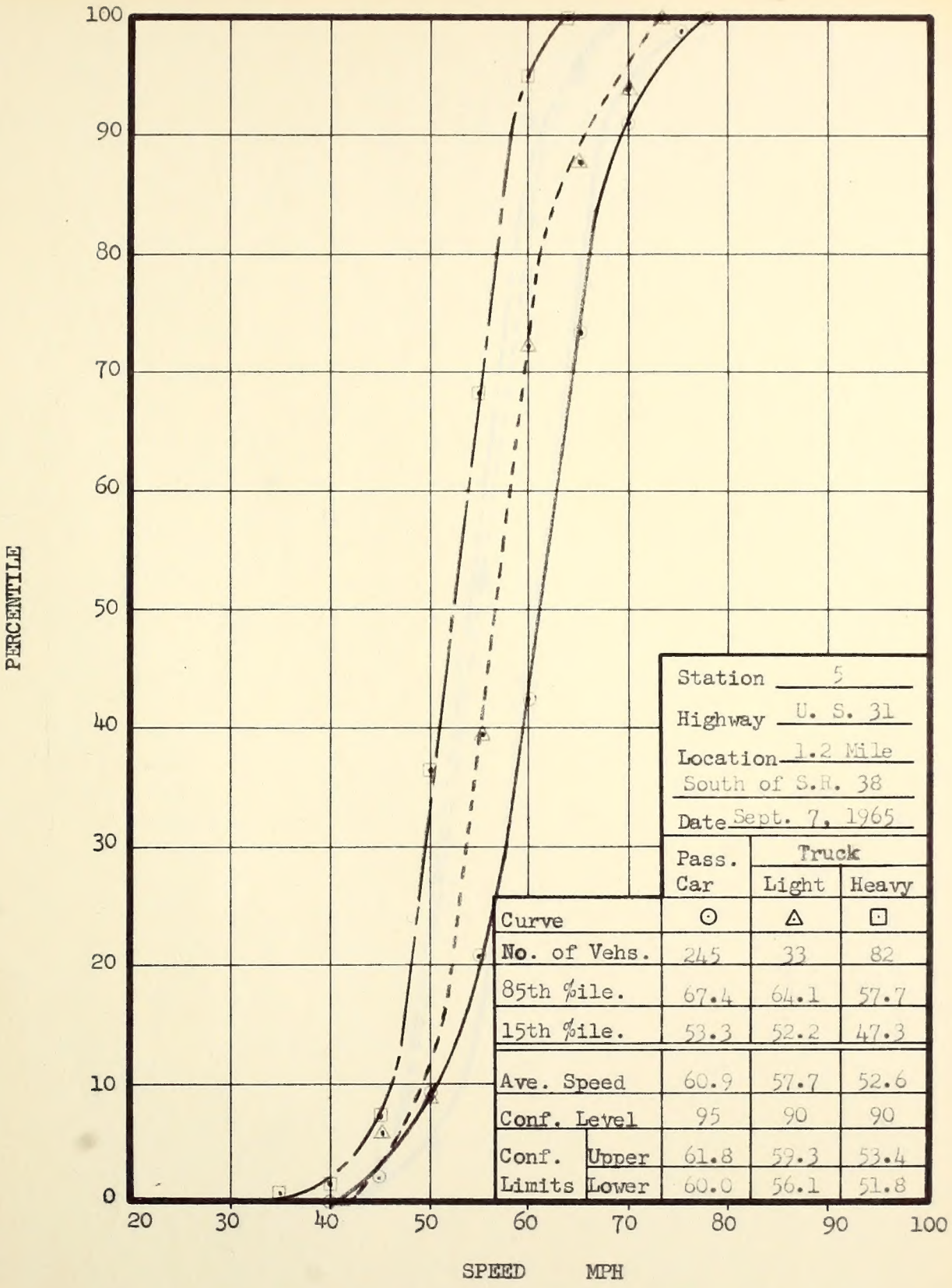
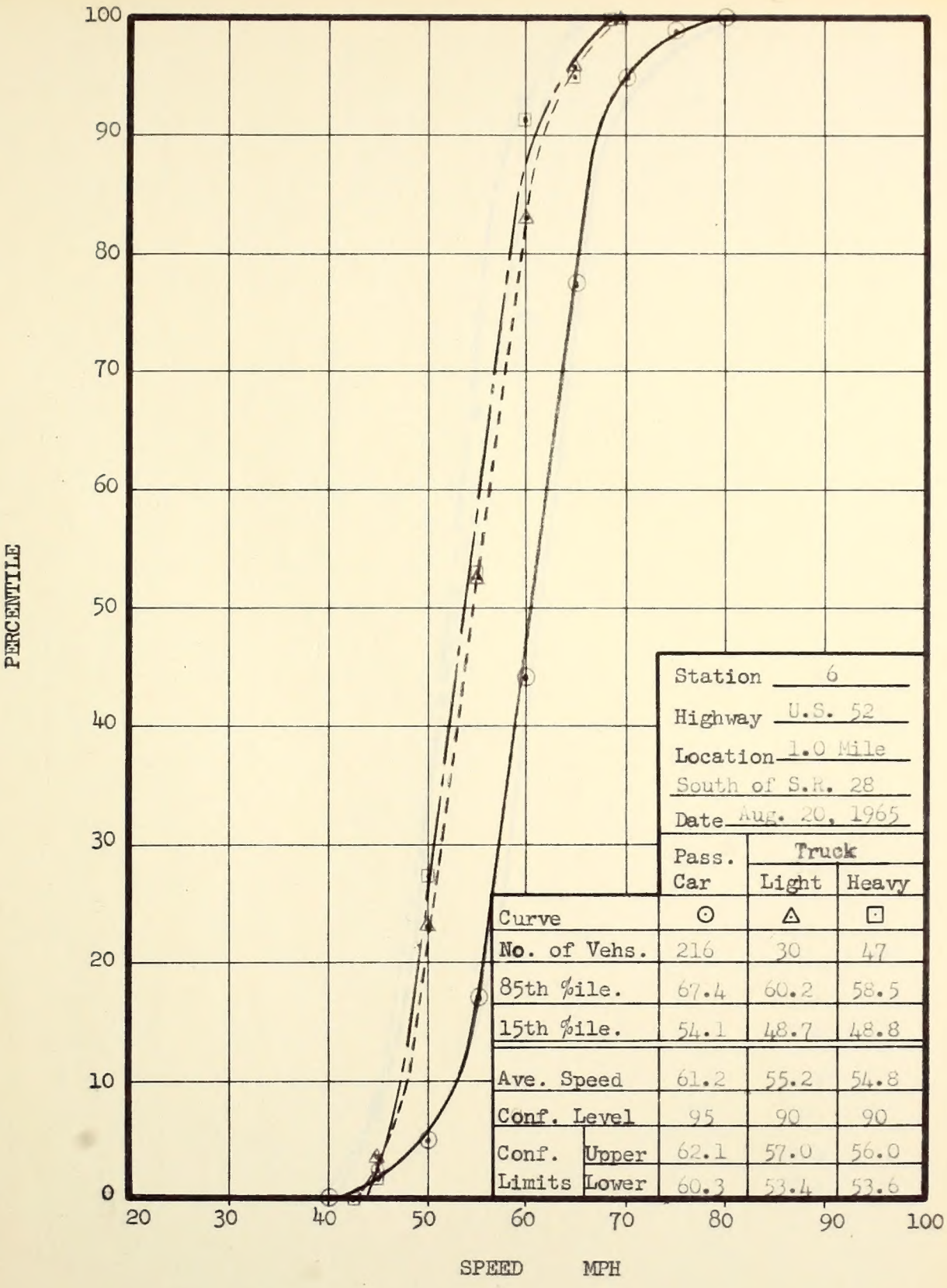


Figure 5. Accumulative Speed Curves



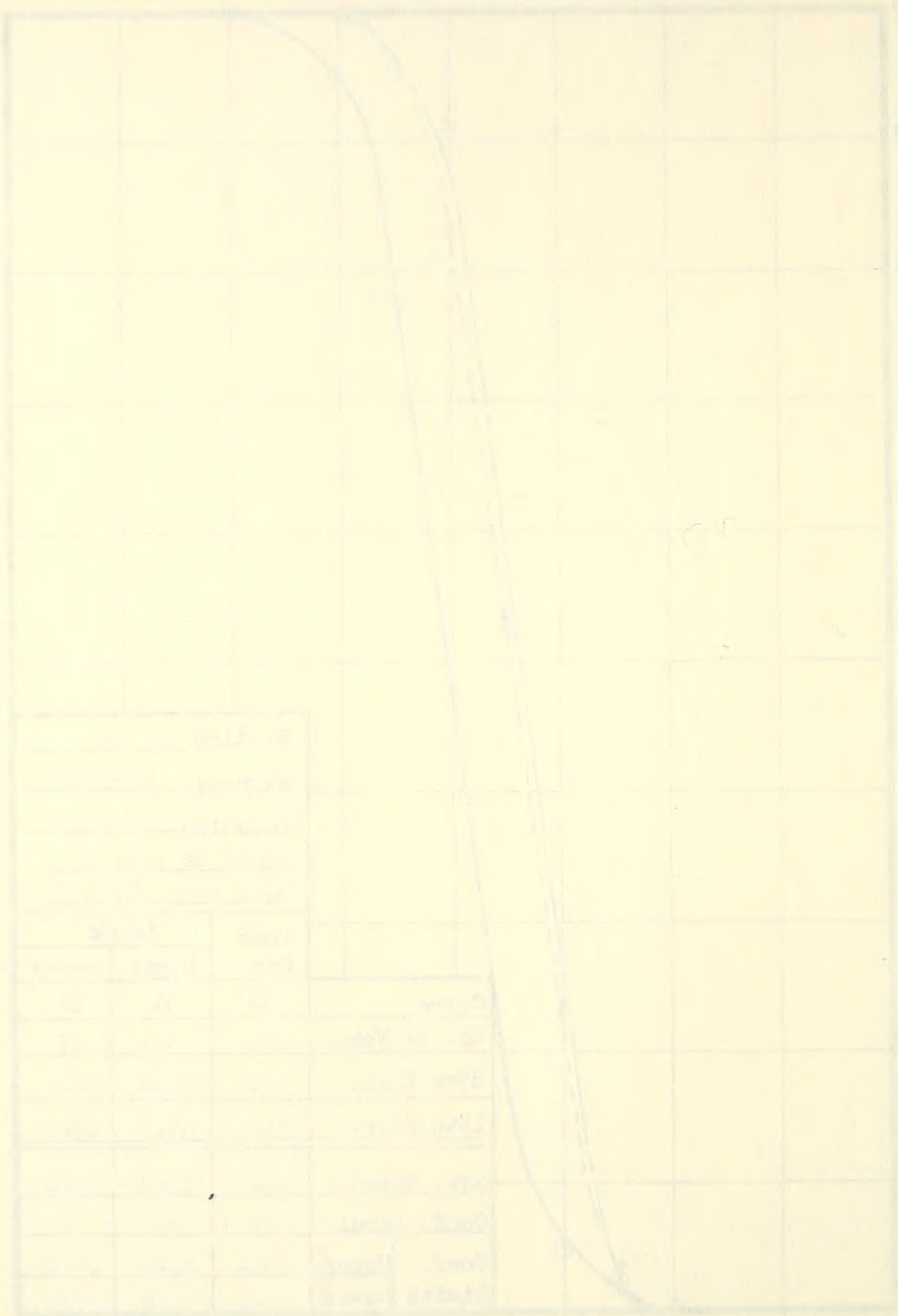
	Pass. Car	Truck	
		Light	Heavy
Curve	⊙	△	⊡
No. of Vehs.	245	33	82
85th %ile.	67.4	64.1	57.7
15th %ile.	53.3	52.2	47.3
Ave. Speed	60.9	57.7	52.6
Conf. Level	95	90	90
Conf. Limits Upper	61.8	59.3	53.4
Conf. Limits Lower	60.0	56.1	51.8

Figure 6. Accumulative Speed Curves



Curve	Pass. Car ⊙	Truck Light △	Truck Heavy ⊡
No. of Vehs.	216	30	47
85th %ile.	67.4	60.2	58.5
15th %ile.	54.1	48.7	48.8
Ave. Speed	61.2	55.2	54.8
Conf. Level	95	90	90
Conf. Limits Upper	62.1	57.0	56.0
Conf. Limits Lower	60.3	53.4	53.6

Figure 7. Accumulative Speed Curves



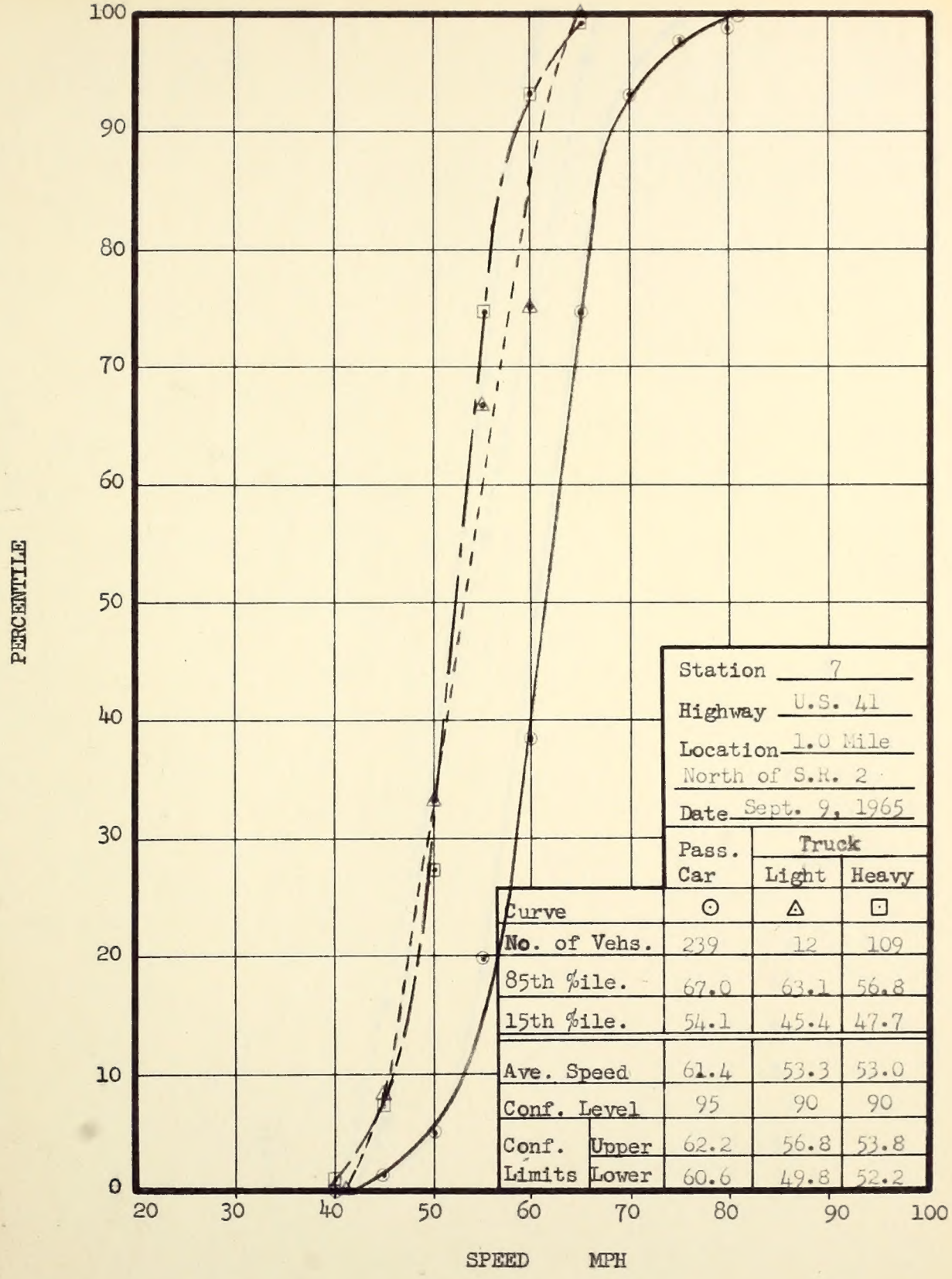
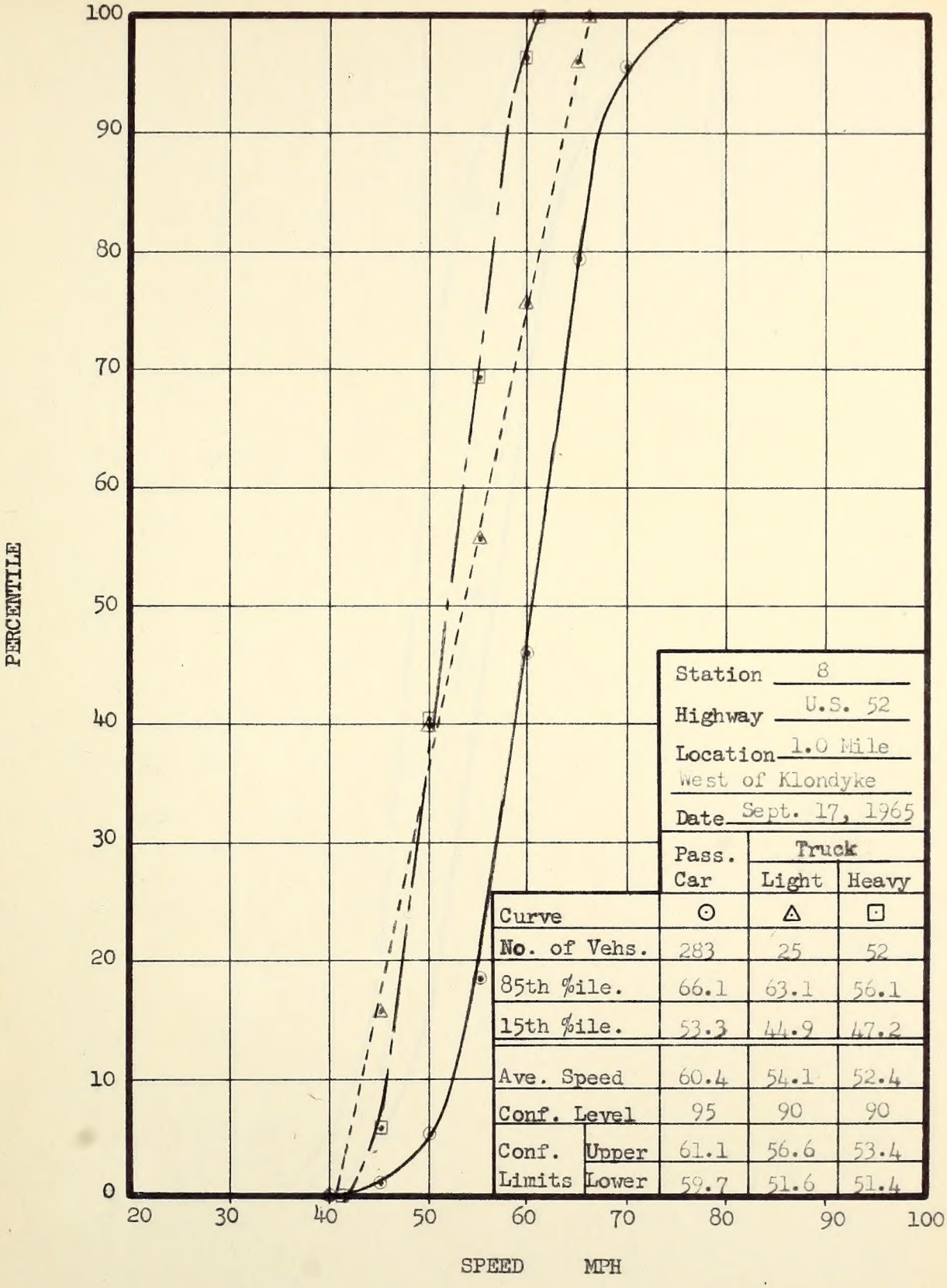


Figure 8. Accumulative Speed Curves



Curve	Pass. Car ⊙	Truck Light △	Truck Heavy ⊡
No. of Vehs.	283	25	52
85th %ile.	66.1	63.1	56.1
15th %ile.	53.3	44.9	47.2
Ave. Speed	60.4	54.1	52.4
Conf. Level	95	90	90
Conf. Limits Upper	61.1	56.6	53.4
Conf. Limits Lower	59.7	51.6	51.4

Figure 9. Accumulative Speed Curves

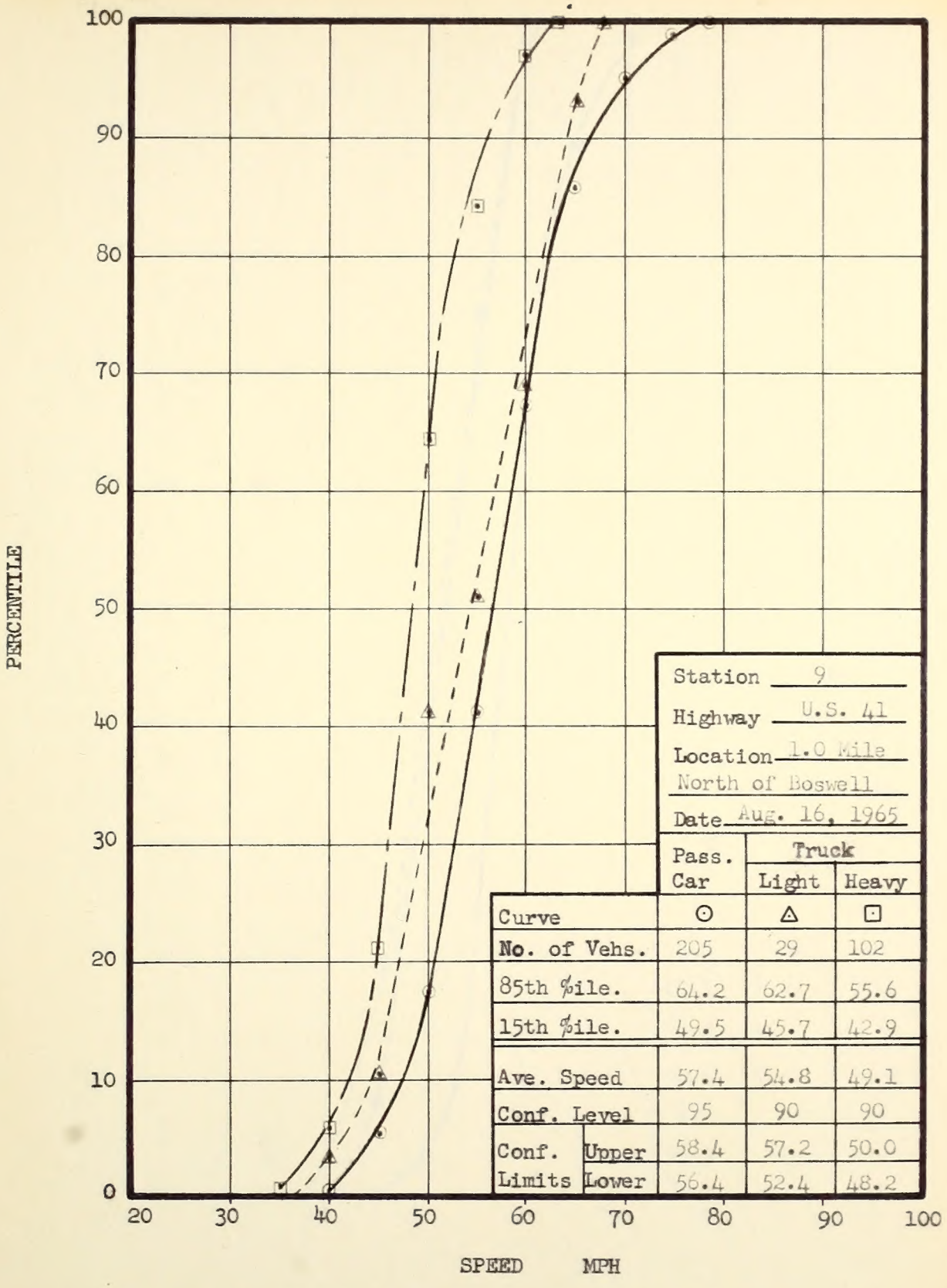
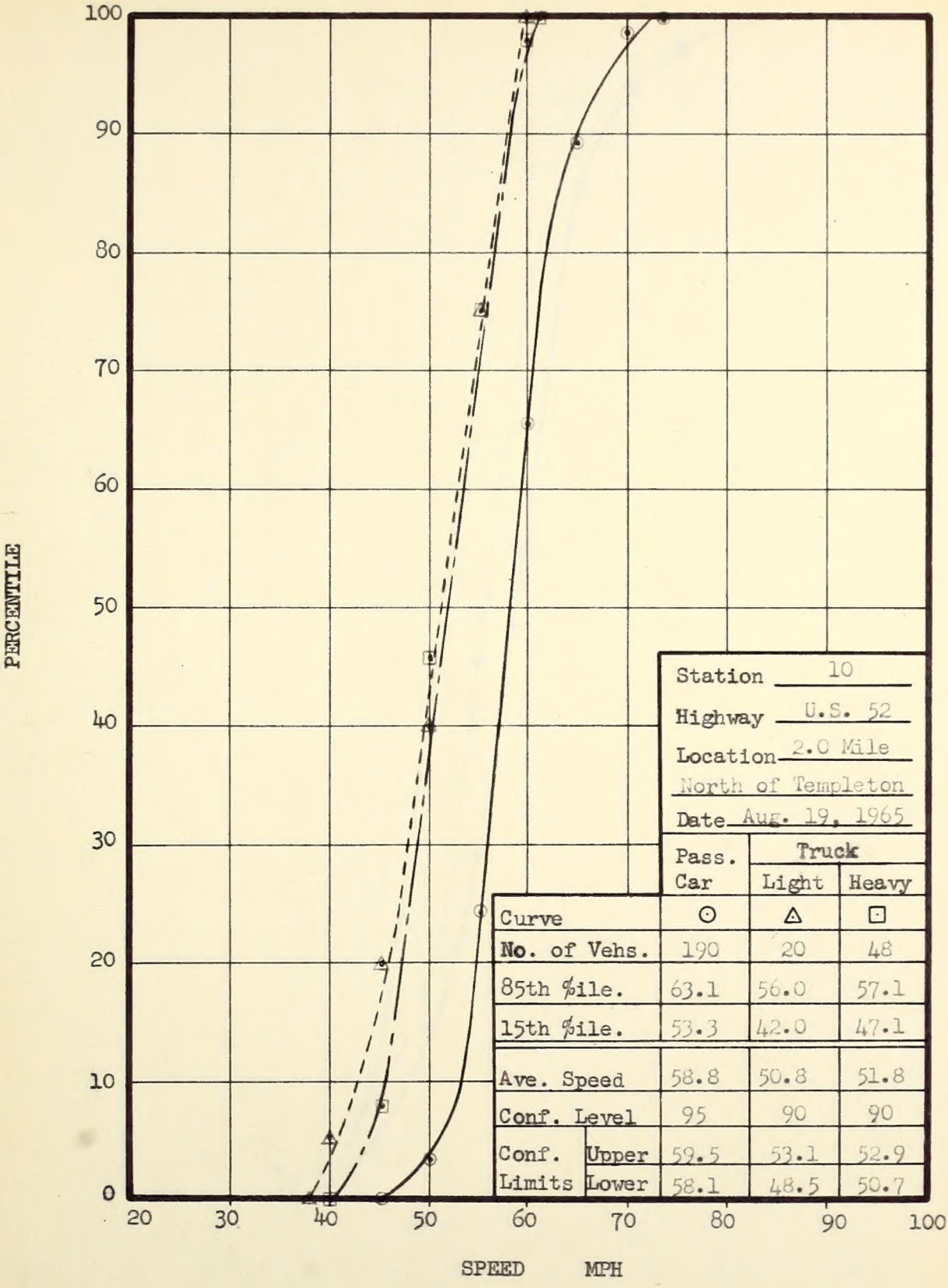
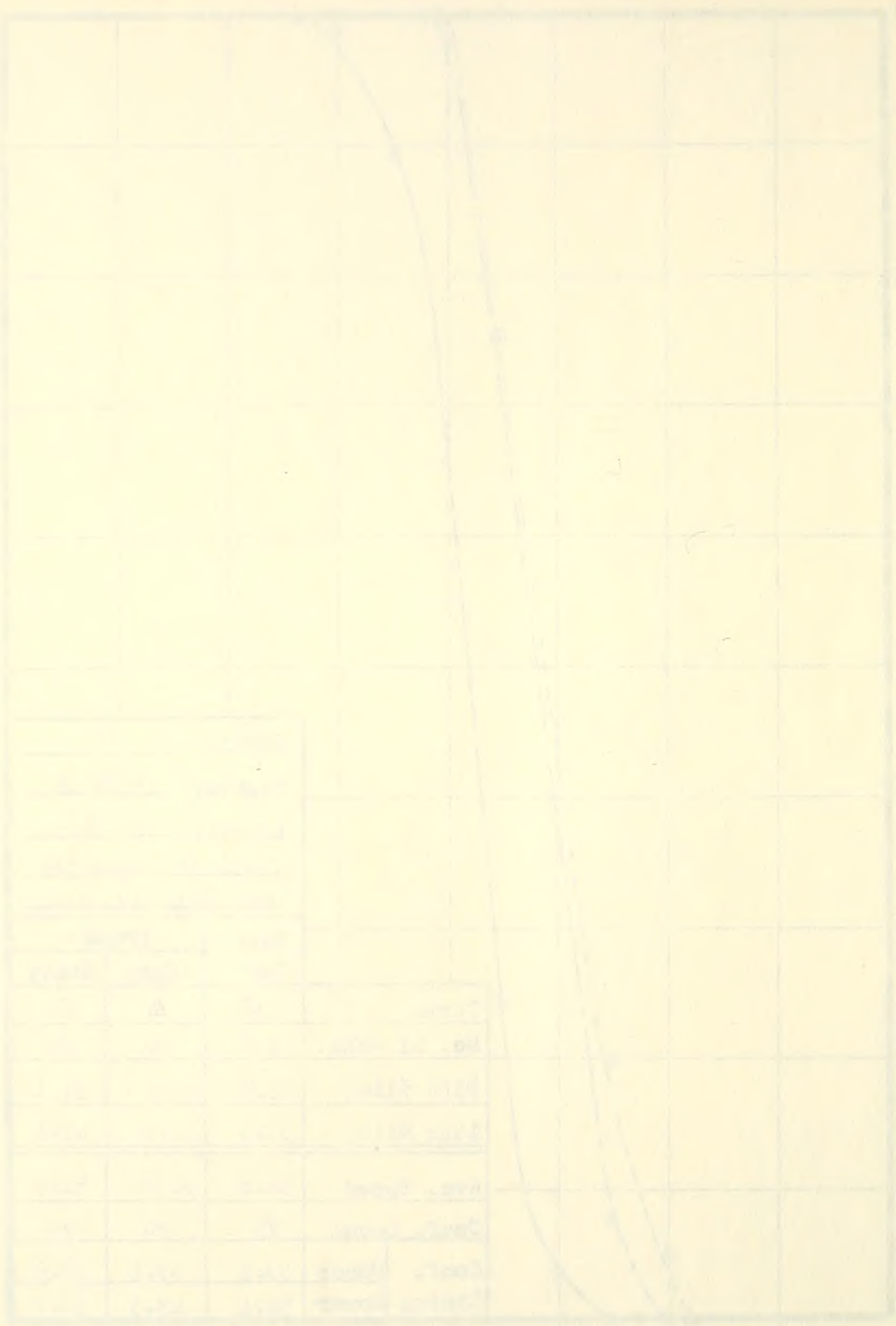


Figure 10. Accumulative Speed Curves



		Pass. Car	Truck Light	Truck Heavy
Curve		⊙	△	⊡
No. of Vehs.		190	20	48
85th %ile.		63.1	56.0	57.1
15th %ile.		53.3	42.0	47.1
Ave. Speed		58.8	50.8	51.8
Conf. Level		95	90	90
Conf. Limits	Upper	59.5	53.1	52.9
	Lower	58.1	48.5	50.7

Figure 11. Accumulative Speed Curves



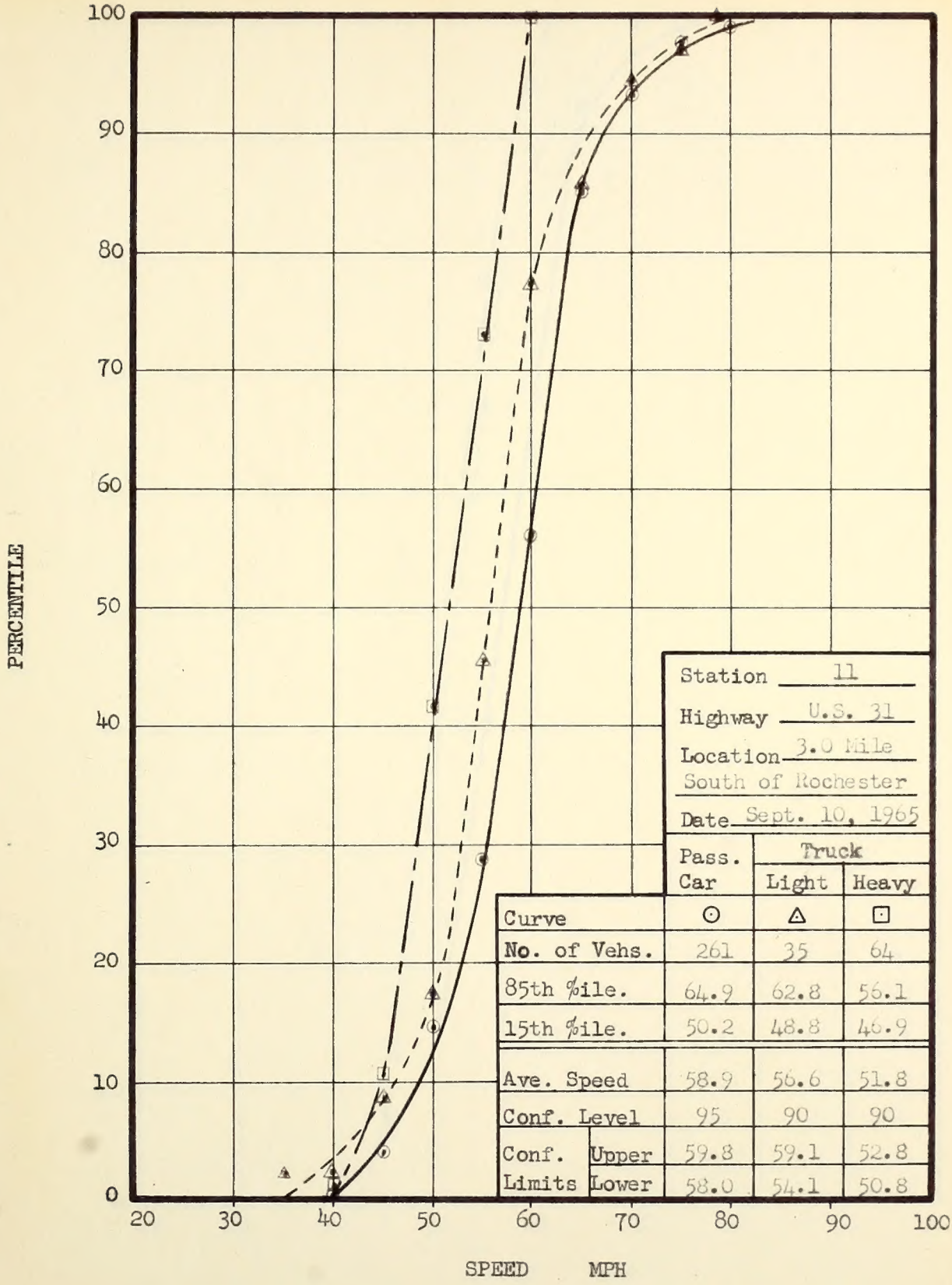


Figure 12. Accumulative Speed Curves

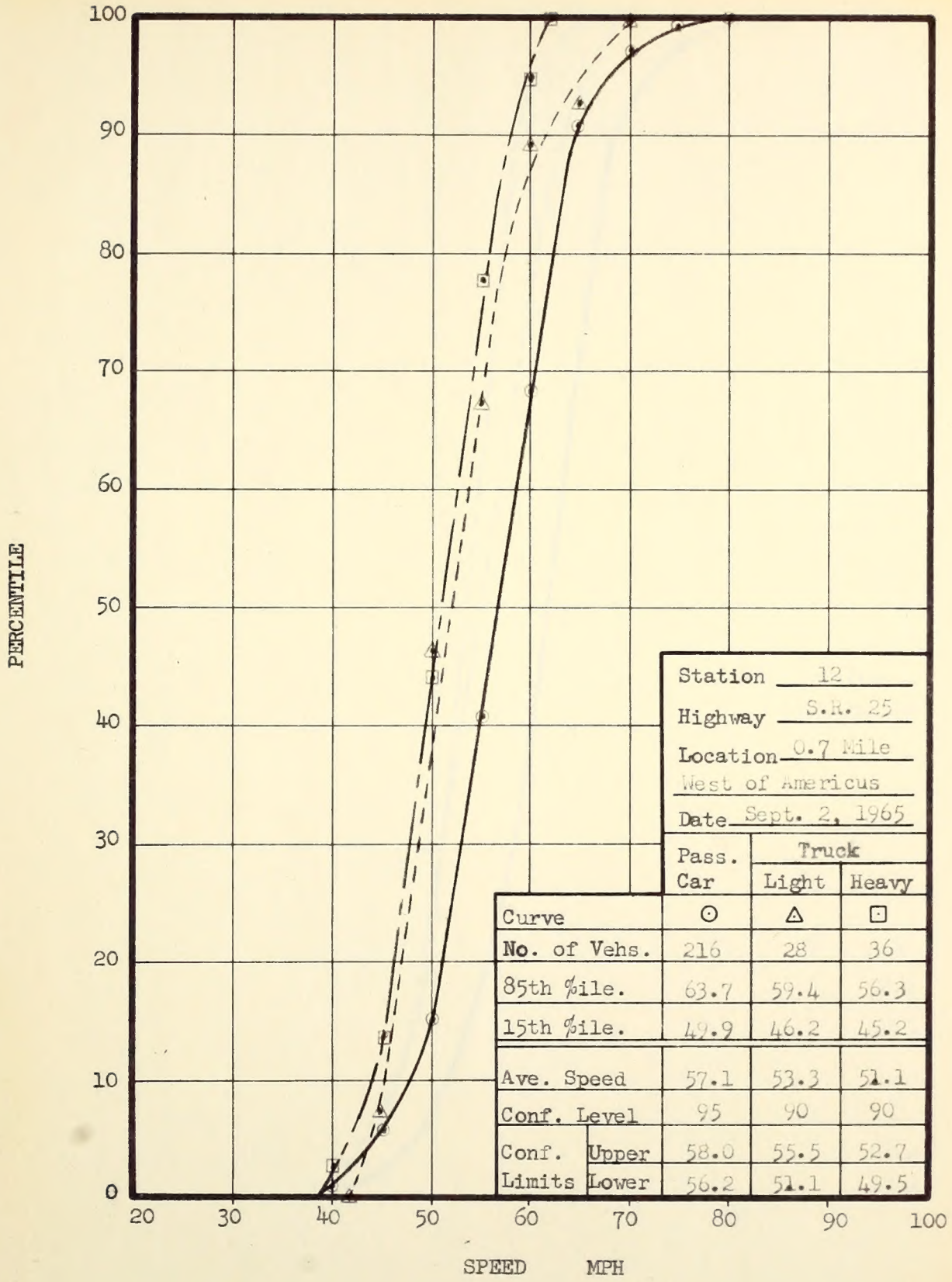


Figure 13. Accumulative Speed Curves

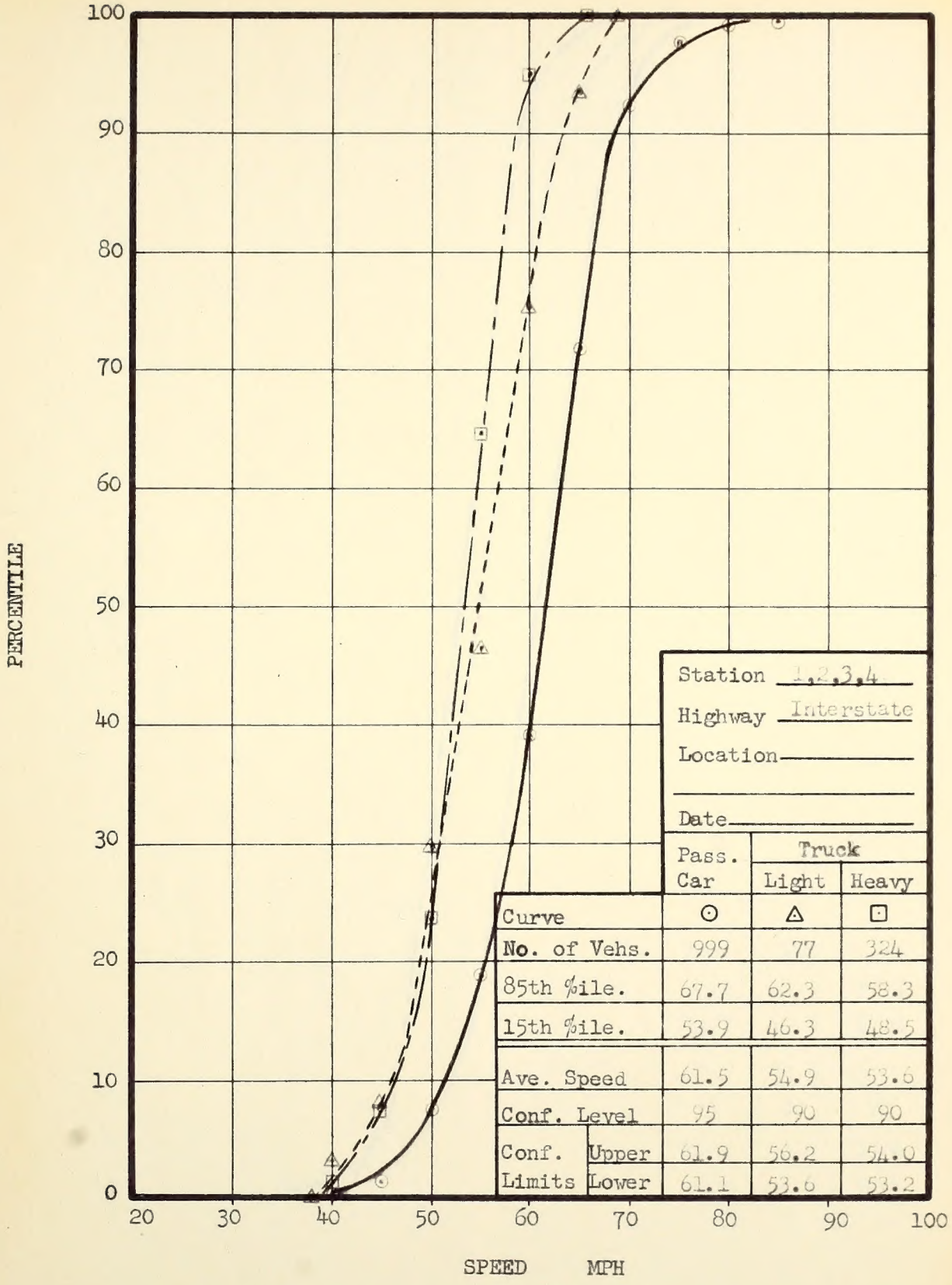
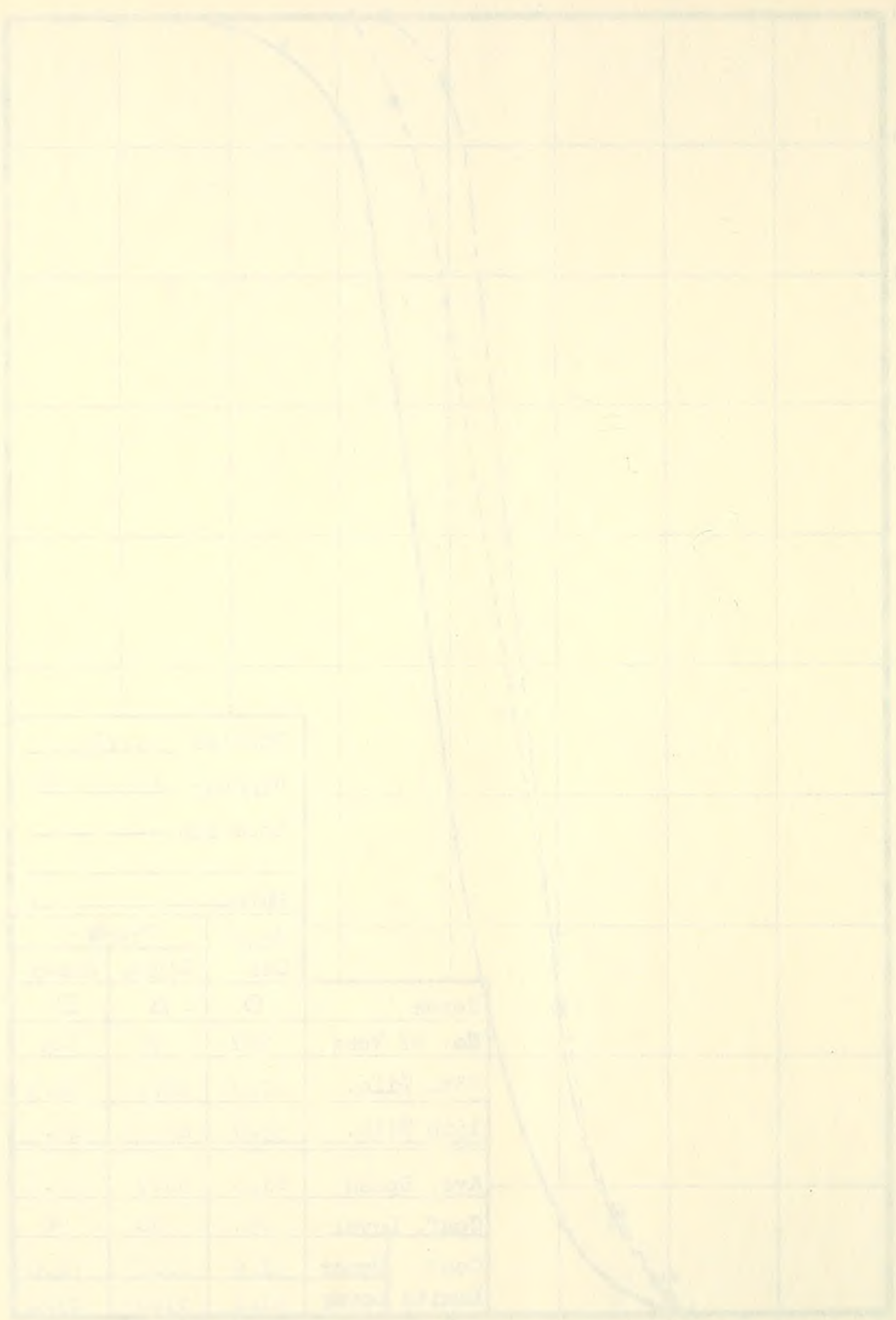


Figure 14. Accumulative Speed Curves



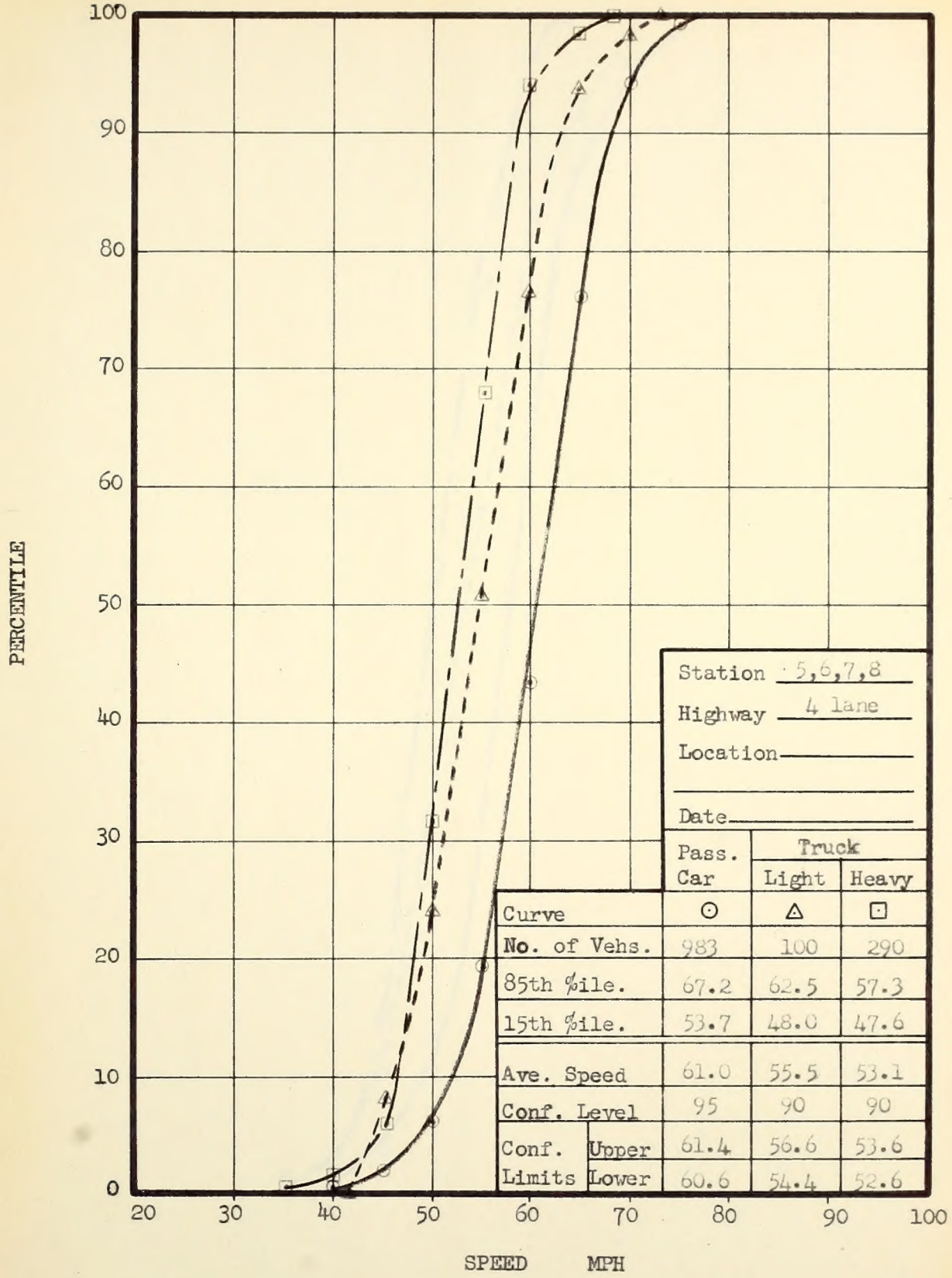


Figure 15. Accumulative Speed Curves

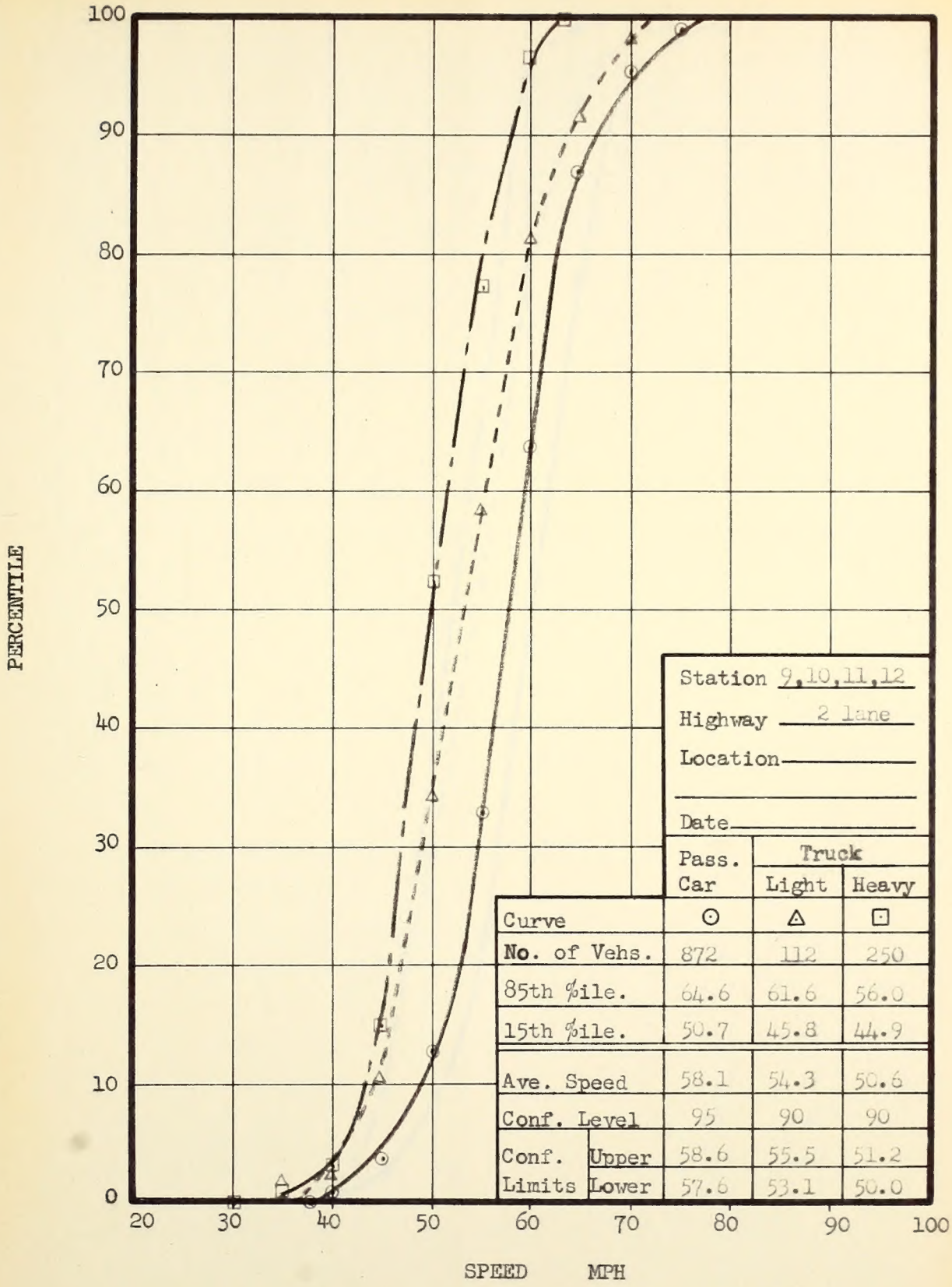


Figure 16. Accumulative Speed Curves

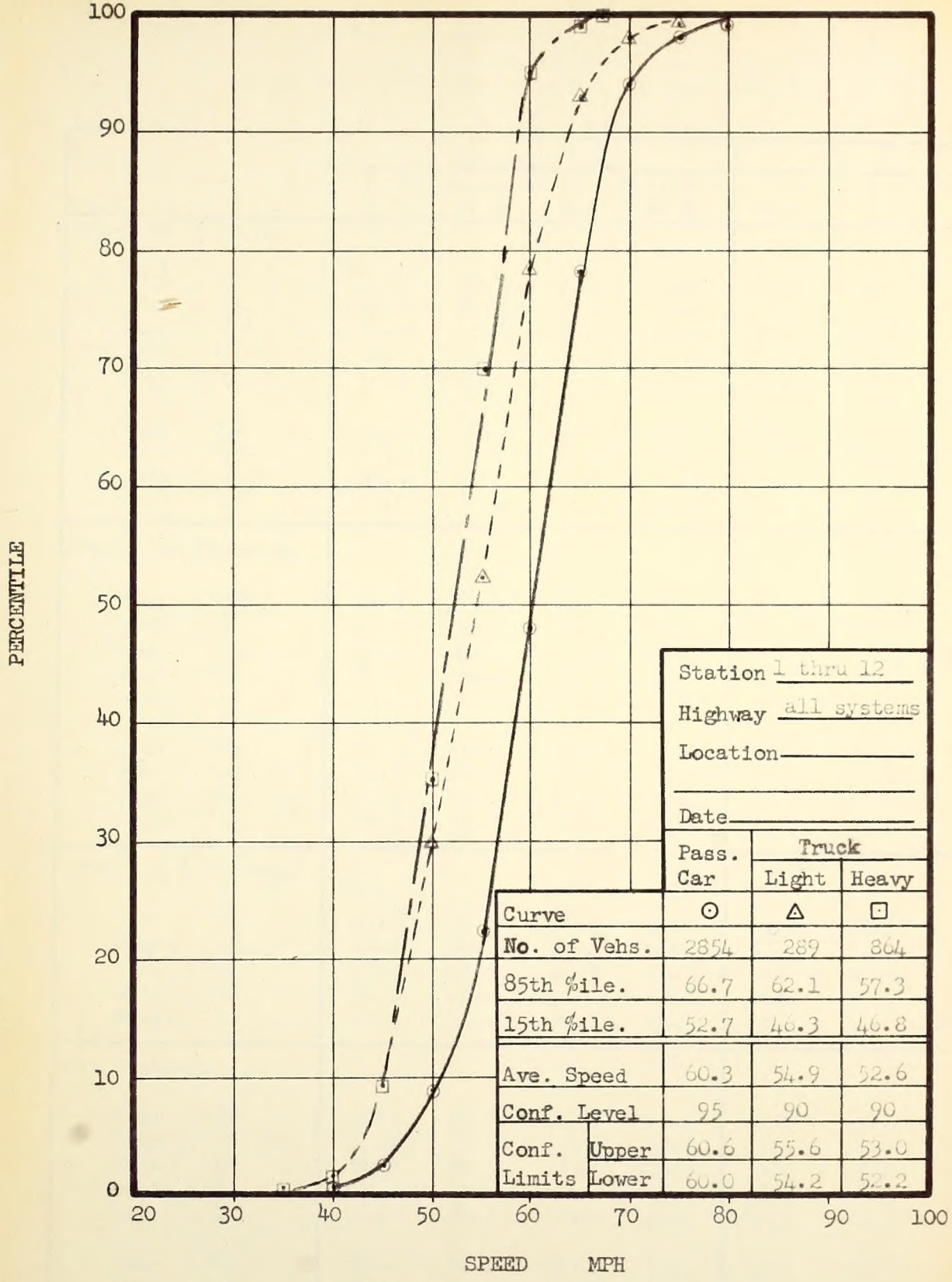


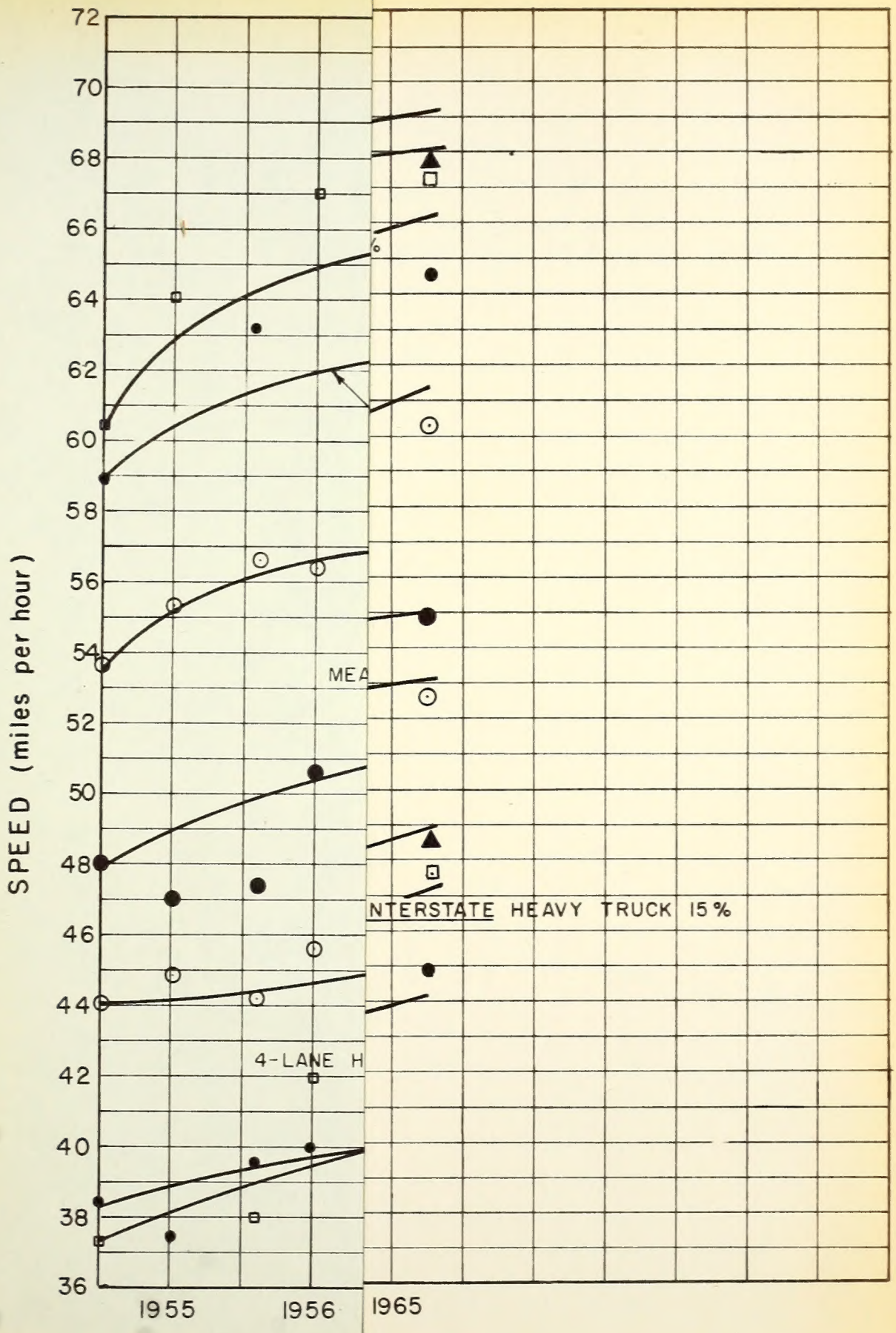
Figure 17. Accumulative Speed Curves

TABLE 17

SUMMARY OF SPOT SPEED OBSERVATION
ON INDIANA HIGHWAYS
(Free-Moving Vehicles on Level, Tangent Sections)

	Passenger Cars				Trucks		
	Ind. Mean	Non-Ind. Mean	All Mean	All 85 %	Light Mean	Heavy Mean	All Mean
Two-lane Highways							
Aug. '57	55.5	56.7	55.9	62.1	51.7	45.8	47.3
Aug. '58	54.3	56.3	55.0	61.7	53.0	46.3	47.8
Aug. '59	55.6	55.3	55.9	63.2	49.7	46.7	48.0
Sept. '60	55.7	55.6	55.6	62.0	53.0	48.1	49.1
Aug. '61	56.2	55.7	55.9	62.2	50.4	48.9	49.3
Aug. '62	56.7	57.5	57.0	63.7	53.1	49.3	50.1
Jun. '63	56.9	57.7	57.2	64.0	52.3	47.9	49.7
July '64	59.1	60.1	59.5	66.6	53.9	51.7	52.4
Sept. '65	58.2	57.9	58.1	64.6	54.3	50.6	51.7
Four-lane Highways							
Aug. '57	57.5	59.9	58.5	64.8	52.0	48.6	47.6
Aug. '58	58.0	59.6	58.7	65.0	54.3	49.0	50.0
Aug. '59	58.4	60.1	59.1	64.5	50.0	53.1	49.5
Sept. '60	59.5	60.2	59.7	65.8	54.8	51.3	52.0
Aug. '61	57.6	57.6	57.6	63.5	53.6	50.3	51.0
Aug. '62	59.2	59.3	59.2	65.6	54.7	51.3	51.9
Jun. '63	60.4	60.6	60.5	66.3	55.0	48.6	51.3
July '64	61.4	63.0	62.0	69.4	55.1	54.5	54.7
Sept. '65	60.1	62.2	61.0	67.2	55.5	53.1	53.7
Interstate Highways							
Aug. '61	56.7*	56.9	58.2	64.0	55.9	51.5	52.4
Aug. '62	58.7	59.1	58.8	65.6	55.8	52.7	53.2
Jun. '63	59.7	61.2	60.3	66.3	55.2	51.5	52.7
July '64	61.9	64.0	62.7	70.5	56.8	54.6	55.2
Sept. '65	61.2	62.1	61.5	67.7	54.9	53.6	53.9
All Highways							
Aug. '57	56.2	58.3	56.9	63.2	51.8	46.1	47.4
Aug. '58	55.7	57.9	56.5	63.1	53.4	47.5	48.7
Aug. '59	56.5	58.4	57.4	63.5	50.6	47.8	48.6
Sept. '60	57.3	57.6	57.4	63.7	53.7	49.4	50.2
Aug. '61	56.9	56.7	57.3	63.4	53.1	50.3	51.0
Aug. '62	58.2	58.7	58.4	65.1	54.5	51.2	51.8
Jun. '63	59.0	59.9	59.3	65.2	54.1	49.5	51.2
July '64	60.8	62.4	61.5	69.2	55.2	53.7	54.1
Sept. '65	59.9	60.9	60.3	66.7	54.9	52.6	53.1

*Includes data for only three of the four stations on Interstate Highways


SPEED (miles per hour)
72
70
68
66
64
62
60
58
56
54
52
50
48
46
44
42
40
38
36
1955
1956
1965
MEA
NTERSTATE HEAVY TRUCK 15%
4-LANE H

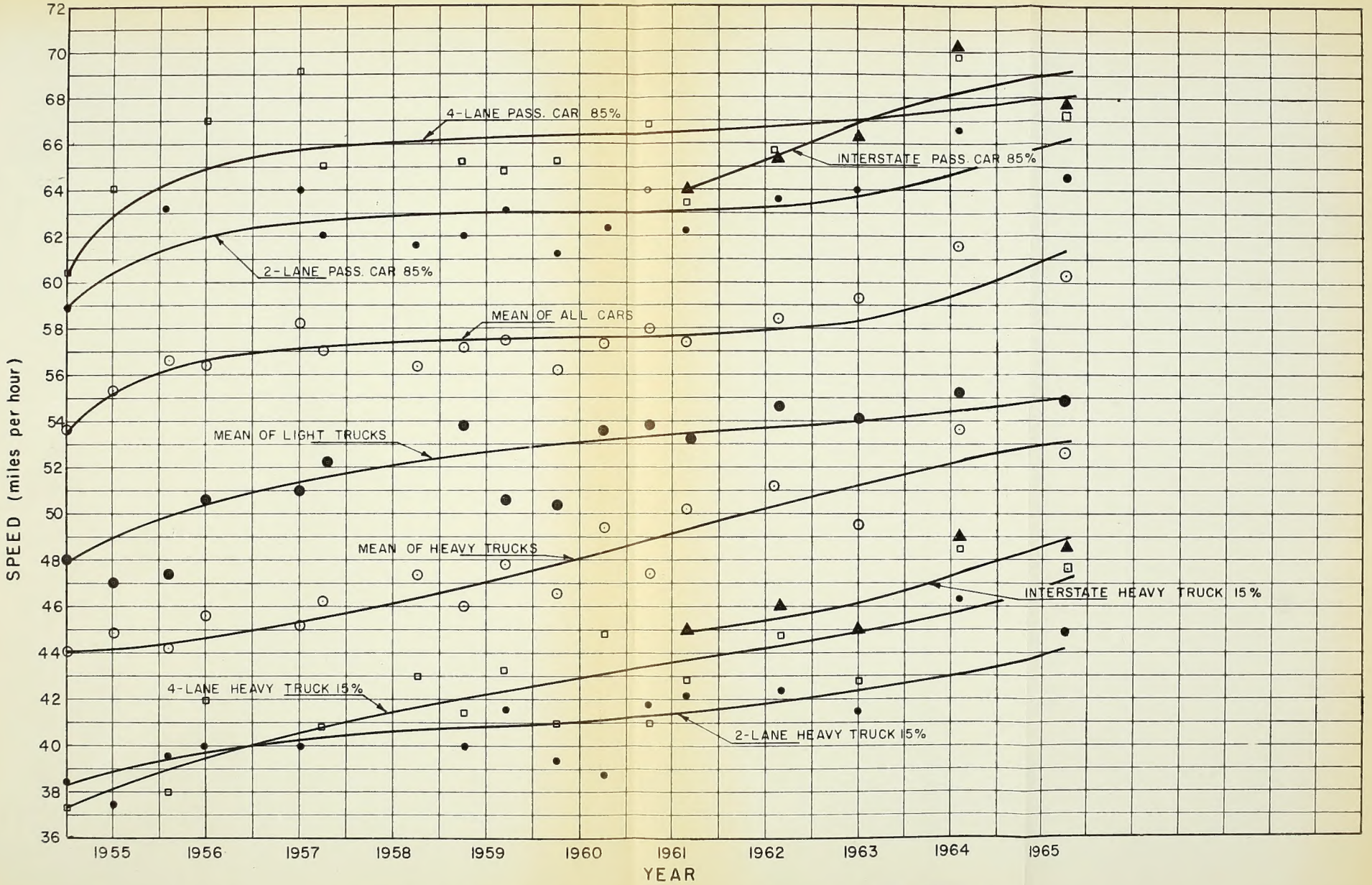
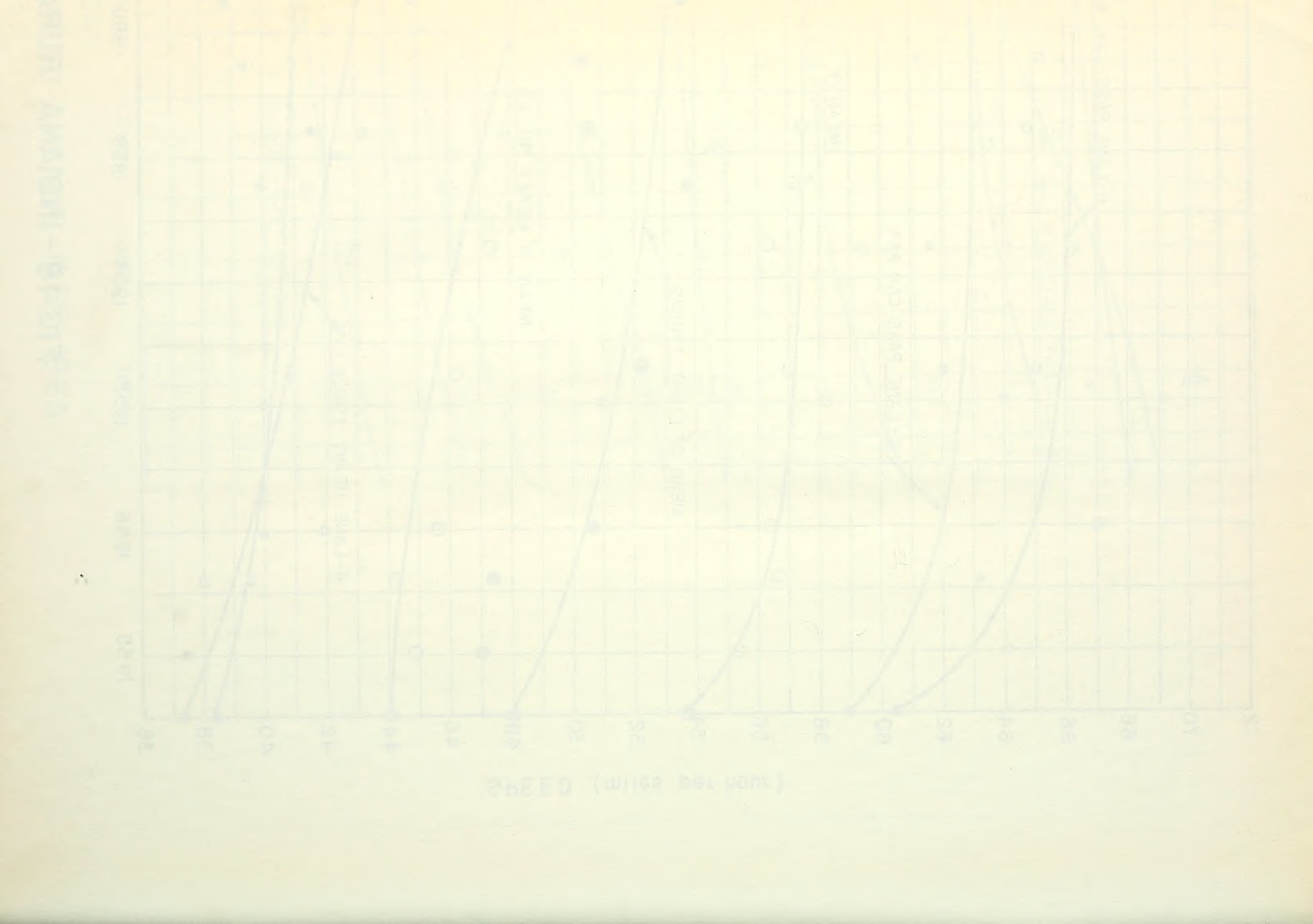



FIG. 18 - INDIANA RURAL SPEED TRENDS 1955 - 1965